

State of California Department of Transportation

Storm Water Quality Handbooks

Project Planning and Design Guide



Storm Water Pollution Prevention Plan (SWPPP)
and Water Pollution Control Program (WPCP) Preparation Manual

Construction Site
Best Management Practices (BMPs) Manual

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Section 1 Introduction and Background

1.1 Purpose and Scope of this Manual

Caltrans has a comprehensive and coordinated statewide effort to prevent pollution in storm water runoff from Caltrans facilities. This effort includes an integrated approach that addresses the storm water quality activities of the various functional areas, including construction.

This document guides Contractors and Caltrans staff through the process of preparing a Storm Water Pollution Prevention Plan (SWPPP) or a Water Pollution Control Program (WPCP). The organization of this manual is shown below. Working details and instructions for the selection and implementation of construction site BMPs are presented in the Caltrans *Storm Water Quality Handbooks – Construction Site Best Management Practices (BMPs) Manual*.

- Section 1 provides the purpose and scope of this manual and background information on the National Pollutant Discharge Elimination System (NPDES) regulations and the Caltrans Statewide NPDES Permit.
- Section 2 provides detailed instructions for the preparation of a SWPPP.
- Section 3 provides detailed instructions for the preparation of a WPCP.
- Appendix A provides attachments for use in preparing a SWPPP.
- Appendix B provides a listing of frequently used abbreviations, acronyms, and the definitions of terms used throughout this Manual.

1.2 Regulations and Permits

1.2.1 Federal Regulations

Federal regulations for controlling discharges of pollutants from municipal separate sewer systems, construction sites, and industrial activities, were brought under the NPDES permit process by the 1987 amendments to the Clean Water Act (CWA), and the subsequent 1990 promulgation of federal storm water regulations issued by the U.S. Environmental Protection Agency (USEPA). The USEPA regulations require municipal and industrial storm water discharges to comply with an NPDES permit. In California, the USEPA delegated its authority to issue NPDES permits to the State Water Resources Control Board (SWRCB) and the nine Regional Water Quality Control Boards (RWQCBs).

1.2.2 Caltrans Statewide NPDES Permit

On July 15, 1999, the SWRCB issued the "National Pollutant Discharge Elimination System (NPDES) Statewide Storm Water Permit and Waste Discharge Requirements (WDRs) for the State of California, Department of Transportation (Caltrans)" (CAS000003, Order No. 99-06-DWQ); hereby called the "Permit". The Permit regulates storm water discharges from Caltrans properties, facilities and activities, and requires that the Caltrans construction program complies with the requirements of the "NPDES General Permit, Waste Discharge Requirements (WDRs) for Discharges of Storm Water Runoff Associated with Construction Activity" (General Permit) (CAS000002, Order No. 99-08-DWQ) issued by the SWRCB, to regulate discharges from construction sites that disturb 5 acres (ac) or more. The Permit gives RWQCBs the option to specify additional requirements they may consider necessary to meet water quality standards. In addition, RWQCBs retain the authority to issue NPDES permits for individual projects or adopt Regional Permits. Copies of the Statewide Permit and the General Construction Permit can be downloaded from the SWRCB Web site, at http://www.swrcb.ca.gov/.

Permit Requirements

The Permit requires Caltrans to implement a year-round program in all parts of the State to effectively control storm water and non-storm water discharges. Furthermore, the Permit requires Caltrans to meet water quality standards through implementation of permanent and temporary (during construction) BMPs and other measures. The Permit prohibits the discharge of waste, including soil and sediment, that causes pollution or nuisance. This section does not intend to include all permit requirements; for information and complete listing of all requirements, refer to the Caltrans Statewide NPDES Permit and the General Construction Permit.

SWPPP/WPCP

The SWPPP and WPCP are documents that address water pollution control during construction. The Permit requires that all storm water discharges associated with construction activity, where clearing, grading, and excavation results in soil disturbance of at least 2 hectares (ha) (5 ac) of total land area, by law must comply with the provisions of an NPDES Permit and develop and implement and effective SWPPP. After March 10, 2003, EPA regulations will require a SWPPP for projects with soil disturbance of 1 acre or more - although the SWRCB may impose an earlier date by amending the Statewide Permit and thus including coverage of projects with soil disturbance of 1 acre or more under the Permit.

Construction projects with a disturbed area of less than 2 ha (5 ac) do not require coverage under the Permit at this time and thus do not require a SWPPP. However, Caltrans requires that a WPCP addressing control measures be prepared and implemented by the construction contractor. Additionally, Caltrans may require the development of a SWPPP if it is determined that the project posses a significant water quality risk.

Section 2 Preparing a Storm Water Pollution Prevention Plan (SWPPP)

2.1 Preparation and Approval of a SWPPP

The Special Provisions require the contractor to prepare a Storm Water Pollution Prevention Plan (SWPPP) for projects that will create 2 hectares (ha) [5 acres (ac)] or more of soil disturbance. The SWPPP must comply with Caltrans Standard Specifications Section 7-1.01G - Water Pollution, and it must be prepared in accordance with the Special Provisions, the NPDES General Construction Permit, and the procedures and general format set forth in this manual.

This section (Section 2) provides detailed systematic procedures, instructions and a template that contractors shall use to prepare the SWPPP. Appendix A contains Attachments that shall be used during development and preparation of the SWPPP. The Permit requires that the SWPPP applies to all areas that are directly related to the construction activity, including but not limited to staging areas, storage yards, material borrow areas and storage areas, access roads, etc., whether or not they reside within the Caltrans rights-of-way.

The contractor shall prepare and submit a completed SWPPP to the Caltrans Resident Engineer (RE) for review and approval. If revisions are required, as determined by the RE, the contractor shall revise the SWPPP as noted. The time frames for SWPPP submittal, review, and resubmittal are specified in the Special Provisions. No construction activity having the potential to cause water pollution, as determined by the RE, shall be performed until the SWPPP has been approved by the RE. To allow construction activities to proceed, the RE may conditionally approve the SWPPP while minor revisions are being completed. Construction activities such as traffic control, that will not threaten water quality may proceed without an approved SWPPP if allowed by the RE. SWPPPs shall be submitted to Caltrans in a 3-ring binder with dividers and tabs. Furthermore, Caltrans may also require that contractors submit an electronic file (Microsoft® Word) of the SWPPP.

2.1.1 Information Provided by Caltrans

In addition to information shown on the project plans, Caltrans may supply to the contractor certain information developed during the design process. The contractor shall use this information to prepare either a WPCP or SWPPP, as appropriate. Items that may be provided are:

- Topographic map of the project area
- Soils/geotechnical report, project materials report and/or other reports for description of soils types, nature of fill materials and known buried hazardous or toxic materials
- List of pre-construction (existing) control practices

- List of and/or narrative description of permanent post-construction storm water control measures
- List or copies of other plans/permits
- Copy of project drainage report for identifying flow patterns and tributary areas
- Construction site estimates such as area calculations, runoff coefficients and pervious area calculations
- Copy of the submitted Notification of Construction (NOC) for the project
- Site specific or activity specific inspection sheet.

Information not provided by the RE and necessary for the complete submittal of the SWPPP shall be obtained or developed by the contractor.

2.1.2 Schedule of Values

The contractor shall prepare and submit with the SWPPP a schedule of values detailing the cost breakdown of the contract lump sum for water pollution control. The schedule of values shall reflect the items of work, quantities and costs for control measures shown in the SWPPP, except for those construction site BMPs and permanent BMPs that are shown on the project plans and for which there is a contract item of work. A sample schedule of values is shown in Table 2-1. The schedule of values form for the project may be included in the Special Provisions.

2.1.3 Conceptual SWPPP

In some cases, Caltrans may prepare a Conceptual SWPPP (CSWPPP) for a project. The CSWPPP will provide additional direction and convey specific BMP expectations to the contractor. However, the CSWPPP shall not be considered a complete SWPPP and shall not replace the contractor's SWPPP, since CSWPPPs are prepared assuming standard construction practices and may not reflect the contractor's actual methods of construction, access requirements or project phasing. When a CSWPPP has been prepared, the information may be made available to the contractor as part of a Storm Water Quality Information Handout. The contractor shall use the CSWPPP as a guide and reference tool to develop and submit the contract SWPPP that includes all elements of the CSWPPP and any additional elements required to complete the SWPPP in conformance with the Special Provisions, the NPDES General Construction Permit and the procedures and general format set forth in this manual.

2.1.4 Minimum Requirements for Construction Sites

In order to ensure that certain minimum level of water pollution control measures are implemented, Caltrans has designated some BMPs as "minimum requirements" that must be implemented, if applicable, on all highway construction projects that require a SWPPP. Implementation of some minimum requirements may not be applicable to every project as verified by the contractor or as determined by Caltrans. These minimum requirements are listed in Table 2-2 and are indicated in Attachment C. The Caltrans "Storm Water Quality Handbooks, Construction Site Best Management

Practices (BMPs) Manual, "provides instructions for selecting and implementing construction site BMPs, and includes working details for construction site BMPs.

TABLE 2-1

SAMPLE SCHEDULE OF VALUES (1)						
Cost Breakdown for Water Pollution Control						
	Contract No.					
	Unit Description	Unit	Approximate Quantity	Unit Cost \$	Total Cost \$	
SS-6	Straw Mulch	НА	4	3,750.00	15,000.00	
WE-1	Wind Erosion Control	HA	1	3,000.00	3,000.00	
TC-1	Stabilized Construction Entrance/Exit	EA	3	1,500.00	4,500.00	
SS-9	Earth Dike	М	300	3.00	900.00	
SS-9	Ditches (lined)	М	200	5.00	1,000.00	
SS-10	Outlet Protection/Velocity Dissipation Device	EA	2	400.00	800.00	
SS-11	Slope Drains	М	20	30.00	600.00	
SC-1	Silt Fence	М	1000	10.00	10,000.00	
SC-2	Desilting Basin	EA	1	2,800.00	2,800.00	
SC-4	Check Dams	EA	8	200.00	1,600.00	
SC-7	Street Sweeping and Vacuuming	LS	1	3,000.00	3,000.00	
SC-8	Sandbag Barrier	М	800	3.00	2,400.00	
SC-10	Storm Drain Inlet Protection Type 1	EA	20	500.00	10,000.00	
SC-10	Storm Drain Inlet Protection Type 2	EA	10	300.00	3,000.00	
SC-10	Storm Drain Inlet Protection Type 3	EA	10	400.00	4,000.00	
SS-1	Scheduling	-	-	N/A	N/A	
SS-2	Preservation of Existing Vegetation	-	-	N/A	N/A	
NS-6	Illicit Connection/Illegal Discharge Detection and Reporting	-	-	N/A	N/A	
NS-8	Vehicle and Equipment Cleaning	-	-	N/A	N/A	
NS-9	Vehicle and Equipment Fueling	-	-	N/A	N/A	
NS-10	Vehicle and Equipment Maintenance	-	-	N/A	N/A	
WM-1	Material Delivery and Storage	-	-	N/A	N/A	
WM-2	Material Use	-	-	N/A	N/A	
WM-4	Spill Prevention and Control	-	-	N/A	N/A	
WM-9	Sanitary/Septic Waste Management	-	-	N/A	N/A	
				Total	\$62,600.00 ⁽²⁾	

Notes:

This schedule of values is an example only. The unit costs shown may not reflect unit costs for water pollution control.

² The total of all extended unit costs shall equal the lump sum bid for water pollution control.

The schedule of values shall include minimum requirements and special requirements listed in the contract special provisions.

The schedule of values shall not include construction site BMPs shown in the drawings and paid as separate bid items.

Table 2-2

CONSTRUCTION SITE BMPs MINIMUM REQUIREMENTS (1)				
TEMPO	RARY SOIL STABILIZATION			
SS-1	Scheduling			
SS-2	Preservation of Existing Vegetation			
SS-3	Hydraulic Mulch (2)			
SS-4	Hydroseeding (2)			
SS-5	Soil Binders (2)			
SS-6	Straw Mulch (2)			
SS-7	Geotextiles, Plastic Covers, & Erosion Control Blankets/Mats (2)			
TEMPO	RARY SEDIMENT CONTROL			
SC-1	Silt Fence			
SC-7	Street Sweeping and Vacuuming			
SC-10	Storm Drain Inlet Protection			
WIND EROSION CONTROL				
WE-1	Wind Erosion Control			
NON-STORM WATER MANAGEMENT				
NS-6	Illicit Connection/Illegal Discharge Detection and Reporting			
NS-8	Vehicle and Equipment Cleaning			
NS-9	Vehicle and Equipment Fueling			
NS-10	Vehicle and Equipment Maintenance			
WASTE	MANAGEMENT AND MATERIAL CONTROL			
WM-1	Material Delivery and Storage			
WM-2	Material Use			
WM-4	Spill Prevention and Control			
WM-5	Solid Waste Management			
WM-9	Sanitary/Septic Waste Management			

⁽¹⁾ Not all minimum requirements may be applicable to every project. Applicability to a specific project shall be verified by the contractor or determined by Caltrans.

⁽²⁾ The Contractor shall select one of five of the identified soil stabilization measures or a combination thereof to achieve and maintain the contract's disturbed soil area (DSA) protection requirements.

2.2 SWPPP Template

This section provides step-by-step SWPPP preparation procedures, instructions and a template. The template has been developed in Microsoft® Word 97 with the following objectives:

- (1) Provide easy data entry for contractors to prepare SWPPPs (instructions and examples can be viewed in the template while the SWPPP is being prepared).
- (2) Provide consistency in content and format of all SWPPPs prepared and submitted to Caltrans(thus making the SWPPP review process more efficient).

Instructions for using the electronic version of the SWPPP template:

- 1. Contractors may download the template from the Caltrans Web site at: http://www.dot.ca.gov/hq/construc/
- 2. Once a contractor has developed the text for the various sections of the SWPPP, a draft SWPPP, including instructions, examples and the completed text for each section, can be printed. The instructions include "check box" items that the preparer may use to review his/her own work and check each of the items as they are completed.
- 3. The contractor's final SWPPP can then be viewed to check format and perform final edits as necessary. The document can then be printed without "instructions and examples" by going to the menu bar in MS Word, selecting the "TOOLS" menu, selecting "OPTIONS" and making sure that the HIDDEN TEXT checkboxes under both the VIEW and PRINT tabs are cleared.

The step by step SWPPP preparation procedures, instructions and template in this section include the following items:

- (i) SWPPP Title Page
- (ii) SWPPP Table of Contents
- Section 100 SWPPP Certifications and Approval Pages
- Section 200 SWPPP Amendments Certification, Approval and Log
- Section 300 Introduction/Project Description
- Section 400 Reference Section
- Section 500 Body of SWPPP
- Section 600 Monitoring Program and Reports

Appendix A contains the following attachments for use in preparation of a SWPPP:

Attachment A Vicinity Map/Site Map (Samples)

Attachment B Water Pollution Control Drawings (Sample)

Attachment C BMP Consideration Checklist

Attachment D Computation Sheet for Determining Runoff Coefficients (Sample)

Attachment E Calculations for Storm Water Run-on (Sample)

Attachment F Notification of Construction - NOC (Blank Form)

Attachment G Program for Maintenance, Inspection, and Repair of Construction Site BMPs (Sample)

Attachment H Storm Water Quality Construction Site Inspection Checklist

Attachment I Trained Contractor Personnel Log Sheet

Attachment J Subcontractor Notification Letter (Sample) and Log

Attachment K Notice of Discharge, Written Notice or Order

Attachment L Storm Water Pollution Prevention Plan (SWPPP) Checklist

Attachment M Annual Certification of Compliance Form

Attachment N Other Plans and Permits

Attachment O Notice of Completion of Construction (NCC)

Title Page

INSTRUCTIONS

The title page shall have the following information:
Title: "Storm Water Pollution Prevention Plan"
Construction Project Name
Caltrans Contract Number
Identification of Lead Agency (Caltrans or Local Agency)
Contractor's Name, Address, Telephone Number and Contact Person
Job Site Address and Telephone Number, if Any
Name of Contractor's Water Pollution Control Manager (WPCM). This person shall be responsible for SWPPP implementation, inspection and repairs.
Name of the company that prepared the SWPPP (if it was prepared by an outside consultant), including name and title of preparer
SWPPP Preparation Date

A template title page is provided below.

REQUIRED TEXT:

STORM WATER POLLUTION PREVENTION PLAN

for

Project Name

Caltrans Contract Number

Prepared for:

Name of Lead Agency
Address 1
Address 2
City, State, ZIP
Resident Engineer's Name
R.E.'s Telephone Number

Submitted by:
Contractor's Company Name

Address 1
Address 2
City, State, ZIP
Telephone
Owner/Representative's Name

Project Site Address

Enter job site address, if any Enter job site telephone number, if any

Contractor's Water Pollution Control Manager

WPCM's Name Telephone(s):

SWPPP Prepared by:

Company Name
Address 1
Address 2
City, State, ZIP
Telephone
Name and Title of Preparer:

SWPPP Preparation Date

Date

Contents

INSTRUCTI	IONS
	e the numbers and names for each section of the SWPPP, from Section 100 to Section 600. e first page number of each subsection.
☐ Include	e a Tab for each major section of the SWPPP and for each of the attachments.
REQUIRED	TEXT:
Section 100 -	- SWPPP Certifications and Approval
100.1	Initial SWPPP Certification
100.2	SWPPP Approval
100.3	Annual Compliance Certification
Section 200 -	- SWPPP Amendments
200.1	SWPPP Amendment Certification and Approval
200.2	Amendment Log
Section 300 -	- Introduction and Project Description
300.1	Introduction and Project Description
300.2	Unique Site Features
300.3	Project Schedule/Water Pollution Control Schedule
300.4	Construction Site Estimates
300.5	Contact Information/List of Responsible Parties
Section 400 -	- References
	References
Section 500 -	- Body of SWPPP
500.1	Objectives
500.2	Vicinity Map
500.3	Pollutant Source Identification and BMP Selection
	500.3.1 Inventory of Materials and Activities that May Pollute Storm Water
	500.3.2 Existing (pre-construction) Control Measures
	500.3.3 Nature of Fill Material and Existing Data Describing the Soil
	500.3.4 Soil Stabilization (Erosion Control)
	500.3.5 Sediment Control
	500 3 6 Tracking Control

		500.3.7 Wind Erosion Control	
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	600.3	Record Keeping and Reports	
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	Attachn	nent A	p
	Attachn	nent B	,S
	Attachn	nent CBMP Consideration Checklis	st
	Attachn	nent D	S
	Attachn	nent E	n
	Attachn	nent F	()
	Attachn	nent G Program for Maintenance, Inspection, and Repair of Construction Site BMP	S
		nent H Storm Water Quality Construction Site Inspection Checklis	
	Attachn	nent ITrained Contractor Personnel Lo	g
	Attachn	nent J Subcontractor Notification Letter and Lo	g
	Attachn	nent K	r
	Attachn	nent L	st
	Attachn	nent M Annual Certification of Compliance Form	n
	Attachn	nent N Other Plans/Permit	S
	Attachn	nent O	()

Section 100 SWPPP Certifications and Approval

100.1 Initial SWPPP Certification

INSTRUCTIONS:						
	Include a Separator and Tab for Section 100 for ready reference.					
SWF Cons	■ The contractor, authorized and required by the Special Provisions to prepare and implement the SWPPP, shall sign and certify the SWPPP in conformance with Section C, Provision 9 of the General Construction Permit (CAS000002, Order No. 99-08-DWQ) and Section M, Provision 10 of the Caltrans Permit (CAS000003, Order No. 99-06-DWQ).					
■ The	SWPPP shall be submitted to the Resident Engineer (RE) for review and approval.					
	Fill in the project name and the contract number at the top of the form. Certification shall be signed and dated by Contractor's staff; specifically, the person responsible for overall management of the site, such as a corporate officer or person assigned the responsibility by a corporate officer, according to corporate procedures.					
	Fill in the name, title and telephone number of the person signing the certification.					
	Use the SWPPP checklist in Attachment L to ensure that all permit requirements have been addressed.					
	The Notification of Construction (NOC) is to be attached in Attachment F. The completed form will be provided by Caltrans.					
REQUI	RED TEXT: To be completed by Contractor					
Project N Caltrans	Name: Contract Number:					
т						

"I certify under a penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, to the best of my knowledge and belief, the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

(Contractor's signature)	(Date)
Signature	Date
(Contractor's Name and Title)	(Contractor's Phone Number)
Name and Title	Telephone Number

100.2 SWPPP Approval				
INSTRUCTIONS:				
■ The Resident Engineer is the authorized representative of the Department for approving, signing, and certifying the SWPPP; in conformance with Section H, Provision 8.b.; and Section M, Provision 10 of the Caltrans Permit (CAS000003, Order No. 99-06-DWQ).				
The Resident Engineer (RE) shall sign and date the approval certification. Print the RE's name and telephone number.				
REQUIRED TEXT:	_			
For Caltrans Use Only Resident Engineer's Approval and Caltrans Certification of the				

Storm Water Pollution Prevention Plan

"I certify under a penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, to the best of my knowledge and belief, the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

RE's Signature	Date
RE's Name	RE's Telephone Number

100.3 Annual Compliance Certification

INSTRUCTIONS:

- Qualified assigned personnel listed by name and contact number in the SWPPP shall certify annually
 that construction activities comply with the requirements of the Permit and the SWPPP. This
 Certification is based upon the site inspections required in Section 600.
- The annual certification shall be completed by the contractor before June 15 of each year and submitted to the RE for approval. Forms for the Annual Certification of Compliance and RE Approval of the Annual Certification are provided in Appendix A, Attachment M of this Manual.
- A blank copy of the Annual Certification of Compliance and RE Approval forms shall be included in the SWPPP as Attachment M.
- Completed and signed Annual Compliance Certifications and RE Approvals shall be included in this section of the SWPPP following the required text, below.
- Do not complete the Annual Certification during the initial SWPPP approval. Annual certifications are completed by June 15th each year. For those projects that start construction on or after June 15th, an Annual Certification will not be required until the following June 15th.

REQUIRED TEXT:

By June 15 of each year, the contractor shall submit an Annual Certification of Compliance to the Resident Engineer (RE) stating compliance with the terms and conditions of the Permits and the SWPPP. The Annual Certification of Compliance Form and RE Approval Form are included in Attachment M. Completed Annual Certifications of Compliance and Approvals can be found in the following pages.

Section 200 SWPPP Amendments

200.1 SWPPP Amendment Certification and Approval

INS	TR	UCTIONS:
		Include a Separator and Tab for Section 200 for ready reference.
•		en changes in the approved SWPPP are required, the contractor shall prepare and certify an endment and submit it to the RE for review and approval.
	The	SWPPP shall be amended:
	-	Whenever there is a change in construction or operations which may affect the discharge of pollutants to surface waters, groundwater(s), or a municipal separate storm sewer system (MS4); or
	-	If any condition of the Permits is violated or the general objective of reducing or eliminating pollutants in storm water discharges has not been achieved. If the RWQCB determines that a Permit violation has occurred, the SWPPP shall be amended and implemented within 14-calendar days after notification by the RWQCB;
	-	Annually, prior to the defined rainy season, when required by the project's Special Provisions; and
	-	When deemed necessary by the RE.
•		SWPPP amendments shall be transmitted in letter format and shall include revised WPCD sheets, appropriate.
		amendments shall be recorded in the SWPPP amendment log that is located in Section 200.2 of the PPP.
•		proved amendments will be inserted into the Contractor's on-site SWPPP. Contractor Certifications RE Approvals for all amendments shall be inserted into this section.
	The	following items shall be included in each amendment:
	-	Discuss who requested the amendment.
	-	Describe the location of proposed change.
	-	Describe reason for change.
	-	Describe the original BMP proposed, if any.
	-	Describe the new BMP proposed.
	-	Describe any existing implemented BMP(s)
		This SWPPP certification and approval form shall be used as a cover sheet for each amendment.
		Fill-in the Project name and Caltrans contract number.
		The Contractor shall sign and date the certification form.
		The RE shall sign and date the certification approval form.

Print the names and telephone numbers.

EXAMPLE:

The Regional Water Quality Board has requested the following Amendment:

The concrete washout is to be relocated away from the drainage inlet at Miller Ave. It is now located on the northeast section of the construction site, see revised map. This change will prevent concrete washout water from entering the drainage inlet.

REQUIRED TEXT:

This SWPPP shall be amended:

- Whenever there is a change in construction or operations which may affect the discharge
 of pollutants to surface waters, groundwater(s), or a municipal separate storm sewer
 system (MS4); or
- If any condition of the Permits is violated or the general objective of reducing or eliminating pollutants in storm water discharges has not been achieved. If the RWQCB determines that a Permit violation has occurred, the SWPPP shall be amended and implemented within 14-calendar days after notification by the RWQCB;
- Annually, prior to the defined rainy season, when required by the project's Special Provisions; and
- When deemed necessary by the RE.

The amendments for this SWPPP, along with the Contractor's Certification and the RE's approval, can be found in the following pages. Amendments are listed in the Amendment Log in section 200.2

SWPPP Amenda	nent No
Project Name:	
Caltrans Contract Number:	
To Re Comple	ted by Contractor
-	•
	tem designed to ensure that qualified personnel mitted. Based on my inquiry of the person or directly responsible for gathering the information, mation submitted is true, accurate, and complete. I submitting false information, including the
Contractor's Signature	Date
Contractor's Name and Title	Telephone Number
	ans Use Only
<u>e</u>	eer's Approval and rtification of the
	Prevention Plan Amendment
	tem designed to ensure that qualified personnel mitted. Based on my inquiry of the person or directly responsible for gathering the information, mation submitted is true, accurate, and complete. I submitting false information, including the
RE's Signature	Date
RE's Name	RE's Telephone Number

200.2 Amendment Log

NSTRUCTIONS:			
	which shall be kep	oproved as discussed in Section 200.1 t in Section 200 of the SWPPP, immed	
All amendments shall	be dated, directly	attached to the SWPPP, and listed in the	ne Amendment Log.
	ment number, Date	s contract number at the top of the forn e, Brief Description, and Name of Perso	
EXAMPLE:			
Amendment No.	Date	Brief Description of Amendment	Prepared By
001	Dec 10, 2000	Grading schedule changed to begin on Feb 10, 2001, and will include additional 2 acres. Amended plans attached to SWPPP.	John Doe, Superintendent
REQUIRED TEXT:			
Project Name:			
Caltrans Contract Numb	er:		

Amendment No.	Date	Brief Description of Amendment	Prepared By

Amendment No.	Date	Brief Description of Amendment	Prepared By

Section 300 Introduction and Project Description

300.1 Introduction and Project Description

INSTRUCTIONS:
Include a Separator and Tab for Section 300 for ready reference. Provide the project's legal description, (County, cities, route and post-mile/kilo-post). Describe proximity to receiving waters to which the project will discharge, including surface waters, drainage channels, and drainage systems (identify who owns the drainage system; i.e., municipality or agency.)
EXAMPLE:
The Construction project is located in Abigge County, in Any city, on State Route 42 from Post mile X to Post mile Y. The purpose of the Salmon River Bridge project is to provide a westbound Highway 42 crossing of the Salmon Strait that meets current seismic and traffic safety standards. Since its construction in 1920, the bridge has experienced corrosion of its metal components due to exposure to chemical fumes and salt air. In addition, the intricate and inaccessible structural members make preventive maintenance difficult without major traffic disruptions and delays to the public. The total load carrying capacity of the bridge has been affected by corrosion damage, at the same time that traffic volumes have increased, increasing the load on the bridge.
The project will upgrade the westbound two-lane span by replacing the existing substandard steel truss bridge with a four-lane suspension bridge (which includes one HOV lane and a bicycle/pedestrian lane). The new suspension bridge consists of two towers in the Strait and a north and south anchorage. The existing maintenance facility will be demolished. This project also includes constructing a vista point at the north end of the bridge and a bicycle lane from the Route 80/29 separation to the south end of the bridge.
REQUIRED TEXT:
Click and type Project Description here 300.2 Unique Site Features
INSTRUCTIONS:
Provide a brief description of any unique site features (water bodies, wetlands, environmentally sensitive areas, endangered or protected species, etc.) and significant or high-risk construction activities that may impact storm water quality. Include any unique features or activities within or adjacent to water bodies (such as dredging, re-use of aerially deposited lead material, large

excavations, or work within a water body).

FXA	M	PI	F.

The Salmon River is located within the project limits. A portion of the construction will occur within the river in order to properly construct the towers. The project will also demolish an existing culvert and will replace it with a larger reinforced concrete box within the tributary.

REQUIRED TEXT:

Click and type Project Features here

300.3 Construction Site Estimates

INSTRUCTIONS:

Provide an estimate of the following site features (Refer also to Attachments D and E):
construction site area (hectares or square meters)
runoff coefficient before and after construction
percentage impervious area before and after construction
anticipated storm water run-on to the construction site (Show calculations and include as Attachment E).

EXAMPLE:

The following are estimates of the construction site:

Construction site area: 171,965 m²

Percentage impervious area before construction: 51.3 % (88,157 m²)

Runoff coefficient before construction (1): 0.68

Percentage impervious area after construction 58.1 % (100,036 m²)

Runoff coefficient after construction (1) 0.73

Anticipated storm water flow on to the construction site (2) 0.96 m³/s (33.8 cfs)

(1) Calculations are shown in Attachment D (2) Calculations are shown in Attachment E

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The following are estimates of the construction site:

Construction site area	m^2
Percentage impervious area before construction	%

	Runoff coefficient before construction (1)	
	Percentage impervious area after construction	%
	Runoff coefficient after construction (1)	
	Anticipated storm water flow on to the construction site (2)	
(1)	Calculations are shown in Attachment D	
(2)	Calculations are shown in Attachment E	
300.4	Project Schedule/Water Pollution Control Schedule	
INSTR	PUCTIONS:	
	Provide a project schedule, either written or graphical. The schedule shall clearly shorten rainy season relates to soil-disturbing and re-stabilization activities. The schedule shadequate level of detail to show major activities sequenced with implementation of common BMPs, including:	all contain an
	project start and finish dates	
	rainy season dates	
	annual certifications	
	mobilization dates	
	mass clearing and grubbing/roadside clearing dates	
	major grading/excavation dates	
	special dates named in other permits such as Fish and Game and Army Corps of Permits	f Engineers
	dates for submittal SWPPP Amendments required by the Special Provisions	
	annual submittal of rainy season implementation schedule as required by the pro-	pject's Special
	dates for implementation of pre-rainy season temporary soil stabilization and tem sediment control BMPs, if required by the project's Special Provisions	nporary
	rainy season implementation schedule	
	deployment of temporary soil stabilization BMPs	
	deployment of temporary sediment control BMPs	

deployment of wind erosion control BMPs

deployment of waste management and materials pollution control BMPs

deployment of tracking control BMPs

deployment of non-storm water BMPs

non-rainy season implementation schedule

Ш	deployment of temporary soil stabilization BMPs	
	deployment of temporary sediment control BMPs	
	deployment of wind erosion control BMPs	
	deployment of tracking control BMPs	
	deployment of non-storm water BMPs	
	deployment of waste management and materials pollution control BMPs	
paving, sawcutting, and any other pavement related operations		
major planned stockpiling operations		
dates for other significant long-term operations or activities that may plan non-storm water discharges such as dewatering, grinding, etc.		
fina	I stabilization activities staged over time for each area of the project	

EXAMPLE #1: Written Schedule

Estimate Construction Start: 05/01/2000 Estimate Construction Finish: 4/15/2002

Mobilization of equipment and materials to begin on 05/01/2000

Install ESA fencing 05/01/2000

Store temporary soil stabilization and temporary sediment control products beginning on 05/01/2000.

Install stabilized construction entrance on 05/01/2000

Site preparation: Clearing and grubbing (Phase I) will occur from 5/25/2000-06/30/2000

Submit annual rainy season implementation schedule 9/25/00

Start implementation of temporary soil stabilization and sediment control BMPs on 09/28/00 (before rainy season starts). Continue to implement and maintain temporary BMPs throughout rainy season.

Complete installation of temporary soil stabilization and sediment control BMPs on 10/5/2000

Rainy season begins October 15, 2000

Earthwork/roadway widening excavation to begin on 06/30/2000 and continue through 02/20/2001

Roadway widening – grading work 07/15/2000 - 02/20/2001.

Schedule soil stabilization subcontractors for application of temporary soil stabilization on disturbed areas and permanent erosion control on areas substantially complete: 09/01/2000

Rainy season ends April 15, 2001

Clearing and grubbing (Phase II) from 05/01/01 through 07/30/2001

SWPPP Annual Certification Due on 6/15/2001

Begin trenching, backfilling and compaction on 7/15/2001

Implement final erosion control (Type D) of substantially completed areas 8/1/2001

Install temporary concrete washout 9/10/2001

Fish and Game Permit starts 09/15/2001

Begin expansion/structure construction/decks/concrete on 9/15/2001

Submit annual rainy season implementation schedule 9/25/01

Start implementation of temporary soil stabilization and sediment control BMPs on 09/28/01 (before rainy season starts). Continue to implement and maintain temporary BMPs throughout rainy season.

Complete installation of temporary soil stabilization and sediment control BMPs on 10/5/2001

Rainy season starts 10/15/2001

End bridge construction on or before 01/25/2002

End of Fish and Game Permit 01/30/2002

Begin final paving/construction on 2/01/2002. Continue to apply soil stabilization and sediment controls as needed during construction

Remove concrete washout and restore area to original grade

Schedule subcontractors for application of permanent erosion control 03/01/2002

Start final stabilization, revegetation and landscape by 3/15/2002

Project complete 4/15/2002

EXAMPLE #2: Graphic Schedule.

See the Sample Water Pollution Control Schedule in the following page

Insert SAMPLE WATER POLLUTION CONTROL SCHEDULE here and remove this page.

This page intentionally left blank and should be removed.

REQUIRED TEXT:

Click and type narrative of project schedule here

300.5 Contact Information/List of Responsible Parties

INSTRUCTIONS:

- Contractor is required to show the Name, Address and Telephone number(s) of the person(s) responsible for water pollution control during construction.
- Duties of the Contractor's Water Pollution Control Manager (WPCM) include but are not limited to:
 - Ensuring full compliance with the SWPPP and the Permit
 - Implementing all elements of the SWPPP and Special Provisions, including but not limited to:
 - Implementation of prompt and effective erosion and sediment control measures
 - Implementing all Non-storm water management, and materials and waste management activities such as: monitoring discharges (dewatering, diversion devices); general site cleanup; vehicle and equipment cleaning, fueling and maintenance; spill control; ensuring that no materials other than storm water are discharged in quantities which will have an adverse effect on receiving waters or storm drain systems; etc.
 - Pre-storm inspections
 - Post-storm inspections
 - Storm event inspections
 - Preparing annual compliance certification
 - Ensuring elimination of all unauthorized discharges
 - The Contractor's WPCM shall be assigned authority by the Contractor to mobilize crews in order to make immediate repairs to the control measures
 - Coordinate with the Engineer to assure all of the necessary corrections/repairs are made immediately, and that the project complies with the SWPPP, the Permit and approved plans at all times.
- If anyone else other than the Contractor's WPCM is responsible for any of these duties, enter Name, address, telephone number(s) of the person(s) and the duty or duties for which they are responsible and edit the template below as needed.
 - Name and Telephone Number(s) of the Contractor's WPCM (this person shall be someone other than the Construction Superintendent). The Contractor's WPCM shall have primary responsibility and significant authority for the implementation, maintenance, inspection and amendments to the approved SWPPP.

REQUIRED TEXT:

The Water Pollution Control Manager (WPCM) assigned to this project is:

WPCM's Name Company Name Address 1 Address 2 City, State, ZIP Telephone

The WPCM shall have primary responsibility and significant authority for the implementation, maintenance, inspection and amendments to the approved SWPPP. Duties of the Contractor's WPCM include but are not limited to:

- Ensuring full compliance with the SWPPP and the Permit
- Implementing all elements of the SWPPP, including but not limited to:
 - Implementation of prompt and effective erosion and sediment control measures
 - Implementing all Non-storm water management, and materials and waste management activities such as: monitoring discharges (dewatering, diversion devices); general site cleanup; vehicle and equipment cleaning, fueling and maintenance; spill control; ensuring that no materials other than storm water are discharged in quantities which will have an adverse effect on receiving waters or storm drain systems; etc.
- Pre-storm inspections
- Post-storm inspections
- Storm event inspections
- Preparing annual compliance certification
- Ensuring elimination of all unauthorized discharges
- The Contractor's WPCM shall be assigned authority by the Contractor to mobilize crews in order to make immediate repairs to the control measures
- Coordinate with the Engineer to assure all of the necessary corrections/repairs are made immediately, and that the project complies with the SWPPP, the Permit and approved plans at all times.

Section 400 References

NSTRUCTIONS:			
		Include a Separator and Tab for Section 400 for ready reference.	
		Identify and prepare a list of the documents referenced in the SWPPP. Project Plans & Specifications, reports, design, and storm water management related documents used to prepare the SWPPP shall also be included in the references.	
	Documents that shall be referenced are:		
		All permits that apply to the project (Federal, state and local), such as Fish and Game, U.S. Army Corps of Engineers, DTSC Aerially Deposited Lead Reuse Variance, etc.	
■ Referenced materials may also include:		erenced materials may also include:	
		On-site project information such as the project plans and specifications, Geotechnical Report, Drainage Report, District-prepared Conceptual SWPPP, other reports provided by the owner, regulatory guidance from federal or state agencies, and published technical specifications	
	The	e reference for each document shall include:	
		Complete name of the referenced document	
		Number of the document (if applicable)	
		Author	
		Date Published	
		Document date/revision that applies	
	Ref	erenced documents shall be kept on-site and be readily available for review.	

EXAMPLE:

The following documents are made a part of this SWPPP by reference:

- Project plans and specifications No. xx-xxxx
- State Water Resources Control Board (SWRCB) Order No. 99-06-DWQ, NPDES No. CAS000003, National Pollutant Discharge Elimination System (NPDES) Permit, Statewide Storm Water Permit and Waste Discharge Requirements (WDRs) for the State of California, Department of Transportation. July 15, 1999.

- State Water Resources Control Board (SWRCB) Order No. 99-08-DWQ, National Pollutant Discharge Elimination System (NPDES) General Permit No. CAS000002, Waste Discharge Requirements (WDRs) for Discharges of Storm Water Runoff Associated with Construction Activity. August 19, 1999.
- Conceptual Storm Water Pollution Prevention Plan (CSWPPP) prepared for the Division of Toll Bridge Program, Contract No. 04-013014. Prepared by California Department of Transportation, District 04, Division of Toll Bridge Engineering Program, Environmental Engineering Branch. October 1999.
- California Regional Water Quality Control Board, Los Angeles Region, Waiver of Clean Water Act Section 401 Water Quality Certification, dated xx/xx/xx.
- US Army Corps of Engineers, Nation wide Permit 26-authorization letter, dated xx/xx/xx.
- California Storm Water Best Management Practices Handbook, March 1993.
- Storm Water Management for Construction Activities Developing Pollution Prevention Plans and Best Management Practices, USEPA 832-R-92-005, October 1992.

REQUIRED TEXT:

The following documents are made a part of this SWPPP by reference:

- Project plans and specifications No. insert number, dated insert date, prepared by Caltrans or other entity preparing plans.
- State Water Resources Control Board (SWRCB) Order No. 99-06-DWQ, NPDES No. CAS000003, National Pollutant Discharge Elimination System (NPDES) Permit, Statewide Storm Water Permit and Waste Discharge Requirements (WDRs) for the State of California, Department of Transportation (Caltrans), July 1999.
- State Water Resources Control Board (SWRCB) Order No. 99-08-DWQ, National Pollutant Discharge Elimination System (NPDES) General Permit No. CAS000002, Waste Discharge Requirements (WDRs) for Discharges of Storm Water Runoff Associated with Construction Activity, August 1999.
- Caltrans Storm Water Quality Handbooks, Construction Site Best Management Practices Manual, dated November 2000.
- Caltrans Storm Water Quality Handbooks, SWPPP/WPCP Preparation Manual, dated November 2000.
- California Storm Water Best Management Practices Handbook, March 1993
- Click and type other References here

SECTION 500 Body of SWPPP

500.1 Objectives

INSTRUCTIONS:

- Include a Separator and Tab for Section 500 for ready reference.
- The four primary SWPPP objectives are described in the General Permit and are shown below in the "required text" section. Pollutant source identification and BMP selections shall be developed in the body of the SWPPP to support the four SWPPP objectives.
- Note: Information on the applicable Permit number and issuing agency is specified in the Special Provisions.

REQUIRED TEXT:

This Storm Water Pollution Prevention Plan (SWPPP) has four main objectives:

- Identify all pollutant sources, including sources of sediment that may affect the quality of storm water discharges associated with construction activity (storm water discharges) from the construction site, and
- Identify non-storm water discharges, and
- Identify, construct, implement in accordance with a time schedule, and maintain Best Management Practices (BMPs) to reduce or eliminate pollutants in storm water discharges and authorized non-storm water discharges from the construction site during construction, and
- Develop a maintenance schedule for BMPs installed during construction designed to reduce or eliminate pollutants after construction is completed (post-construction BMPs).

This SWPPP conforms with the required elements of Permit No. CAS000003 and with the required elements of General Permit No. CAS000002 issued by the State of California, State Water Resources Control Board (SWRCB). This SWPPP will be modified and amended to reflect any changes in construction or operations that may affect the discharge of pollutants from the construction site to surface waters, groundwaters, or the municipal separate storm sewer system (MS4). The SWPPP will also be amended if it is in violation of any condition of the Permit or has not achieved the general objective of reducing pollutants in storm water discharges. The SWPPP will be readily available on-site for the duration of the project.

500.2 Vicinity Map

NS	TR	UCTIONS:
•	The	General Permit requires that both a vicinity and site map be included in the SWPPP.
		The Vicinity Map shall be a 8-1/2" x 11" color copy of a USGS map or equal and shall extend approximately 400 meters (one-quarter mile) beyond the property boundaries of the construction site (an 11" x 17" may be used if needed). Insert the vicinity map as Attachment A and place a reference in Section 500.2.
		To meet the site map requirement, insert a reduced copy (8-1/2" x 11" or 11" x 17") of the project's Title Sheet in Attachment A and make reference to it in Section 500.2.
		Provide a brief narrative description of the vicinity to support the map in Attachment A. Describe important features, drainage areas, or receiving waters that could not be shown on the map.
•	The	vicinity map shall show:
		outline of the site's perimeter;
		easily identifiable major roadways;
		geographic features or landmarks;
		water bodies within or adjacent to the construction limits;
		construction site perimeter;
		known wells;
		outline of the offsite drainage area(s) that discharge into the construction site;
		identification of anticipated discharge location(s) where the construction site's storm water discharges to a municipal storm sewer system or other water body;
		other geographic features surrounding the site; and
		general topography.

REQUIRED TEXT

The construction project vicinity map showing the project location, surface water boundaries, geographic features, construction site perimeter, and general topography, is located in Attachment A. The project's Title Sheet provides more detail regarding the project location and is also included in Attachment A.

500.3 Pollutant Source Identification and BMP Selection

500.3.1 Inventory of Materials and Activities that May Pollute Storm Water

INSTR	INSTRUCTIONS:				
	List all construction materials that will be used and construction activities that will have the potential to contribute to the discharge of pollutants to storm water.				
	List all construction activities that have the potential to contribute sediment to storm water discharges.				
	Insert as many bullets as necessary to complete the inventory.				

EXAMPLE:

Control practices for each activity are identified in sections 500.3.4 through 500.3.9

The following is a list of construction materials that will be used and activities that will be performed that will have the potential to contribute pollutants, other than sediment, to storm water runoff. Control practices for each activity are identified in the sections 500.3.4 through 500.3.9):

- Vehicle fluids, including oil, grease, petroleum, and coolants
- Asphaltic emulsions associated with asphalt-concrete paving operations
- Cement materials associated with PCC concrete paving operations, drainage structures, median barriers, and bridge construction
- Joint and curing compounds
- Paints
- Solvents, thinners
- Wood products
- Metals and plated products
- Fertilizers, herbicides, and pesticides

Construction activities that have the potential to contribute sediment to storm water discharges include:

- Clear and grub operations
- Grading operations
- Soil import operations
- Utility excavation operations
- Landscaping operations

REQUIRED TEXT:

The following is a list of construction materials that will be used and activities that will be performed that will have the potential to contribute pollutants, other than sediment, to storm water runoff (control practices for each activity are identified in the Water Pollution Control Drawings (WPCDs) and/or in sections 500.3.4 through 500.3.9:

Construction activities that have the potential to contribute sediment to storm water discharges include:

- .

Attachment C lists all Best Management Practices (BMPs) that are either minimum requirements or special contract requirements, and all BMPs selected by the Contractor for this project. Implementation and location of BMPs are shown on the WPCDs in Attachment B. Narrative descriptions of BMPs to be used during the project are listed by category in each of the following SWPPP sections.

500.3.2 Existing (pre-construction) Control Measures

INSTRUCTIONS:

Identify the existing control measures in place prior to construction. Pre-construction control measures may include any measures used to reduce erosion, sediment or other pollutants in storm water discharges. Pre-construction control measures may include but not be limited to: Detention basins, infiltration basins, sediment basins, oil water separators, bridge slope protection,

rock slope protection, existing erosion control, existing landscaping, lined ditches, energy dissipaters etc.

EXAMPLE:

The following are existing (pre-construction) control measures encountered within the project site:

- Detention basin located at the southeast end of the project. This basin was designed as a combination flood control and permanent treatment control measure. It is anticipated that the basin will be used as a temporary sediment basin during construction, and will be restored to original condition prior to project completion.
- Slopes under the existing bridge are protected with concrete. No disturbance to these slopes is anticipated.
- There are two existing slopes that have permanent rock slope protection, they are shown on WPCD-6. No disturbance is anticipated on these slopes.

REQUIRED TEXT:

T1 C-11:	: _ 4:	(1	1:41.:	41	-:4	-:4
The following	g are existing	(pre-construction) contro	l measures encountered	ı witnin	tne pr	oject	site:

- .
- _
- _
- _
- _

500.3.3 Nature of Fill Material and Existing Data Describing the Soil

INSTRUCTIONS:

Describe the conditions of the fill material and the soils at the construction site (i.e. types of soils,
groundwater location and conditions, dewatering operations that may be necessary, etc). A
general description can usually be found in the project materials report or geotechnical report.

Show and/or describe existing site features that, as a result of known past usage, may contribute
pollutants to storm water, (e.g., toxic materials that are known to have been treated, stored,
disposed, spilled, or leaked onto the construction site). Review the contract documents and
associated environmental documents to determine the known site contaminants and list them in
this section

EXAMPLE:

Existing site features that, as a result of known past usage, may contribute pollutants to storm water, (e.g., toxic materials that are known to have been treated, stored, disposed, spilled, or leaked onto the construction site) include:

■ This site includes aerially deposited lead....located at.......

REQUIRED TEXT:

Describe conditions of fill materials and existing soils at the project site

Existing site features that, as a result of past usage, may contribute pollutants to storm water (e.g., toxic materials that are known to have been treated, stored, disposed, spilled, or leaked onto the construction site) include:

- _

INSTRUCTIONS:

BMP SELECTION PROCESS

The BMP selection process is an iterative process first identifies the potential sources of pollution and then selects the tools (BMPs) necessary to develop and implement an effective SWPPP.

Identify all contract required BMPs (indicated as minimum requirements in Attachment C, and any
other BMPs required by the special provisions).

Select BMPs to eliminate or reduce the pollutants identified in the inventory list (Section 500.3.1).
See Section 2 of the Caltrans Storm Water Quality Handbooks, Construction Site Best
Management Practices (BMPs) Manual, for instructions for selecting and implementing
construction site BMPs and working details for construction site BMPs. Refer to the BMP
Consideration Checklist in Attachment C to select BMPs in each of the following sections:

500.3.4	Soil Stabilization	(Frosion (Control)

500.3.6 Tracking Control

500.3.7 Wind Erosion Control

500.3.8 Non-Storm Water Control

500.3.9 Waste Management and Materials Pollution Control

	Show the selected BMPs on the WPCDs. Use the instructions in Section 500.4 and the SWPPP Checklist (Attachment L) to confirm that all WPCD requirements are included. Provide a narrative description of the BMPs selected in the appropriate section.
500.3.4	Soil Stabilization (Erosion Control)
NSTR	UCTIONS:
	Select temporary soil stabilization BMPs to be used and complete the "Temporary Soil Stabilization" section of the BMP Consideration Checklist in Attachment C. See Section 2 of the Caltrans "Storm Water Quality Handbooks, Construction Site Best Management Practices (BMPs) Manual", for instructions for selecting and implementing construction site BMPs and working details for construction site BMPs.
	Provide introductory paragraphs that define soil stabilization (erosion control), and give a general approach on how temporary soil stabilization BMPs will be implemented on the project.
	List all the temporary soil stabilization BMPs to be used in the project.
	Show selected temporary soil stabilization BMPs on the WPCDs. Provide a narrative description of temporary soil stabilization BMPs that cannot be adequately identified on the WPCDs.
•	Discuss the on-site availability of temporary soil stabilization materials (materials kept for soil temporary soil stabilization BMPs) and proposed mobilization and implementation of temporary soil stabilization BMPs in the event of a predicted storm.

EXAMPLE:

Soil Stabilization, also referred to as erosion control, is a source control measure that is designed to prevent soil particles from detaching and becoming suspended in the storm water runoff. Soil stabilization BMPs protect the soil surface by covering and/or binding the soil particles. This project will incorporate minimum temporary soil stabilization requirements, temporary soil stabilization measures required by the contract documents, and other measures selected by the contractor. This construction project will utilize and implement the following principles to assure effective temporary and final soil stabilization (erosion control) during construction:

- 1) Preserve existing vegetation where required and when feasible.
- 2) Apply temporary soil stabilization (erosion control) to remaining active and non-active areas as required by the Construction Site BMP Manual and the Special Provisions. Reapply as necessary to maintain effectiveness.
- 3) Implement temporary soil stabilization measures at regular intervals throughout the defined rainy season to achieve and maintain the contract's disturbed soil area requirements. When the project's Special Provisions require it, temporary soil stabilization BMPs will be implemented 20 days prior to the defined rainy season.
- 4) Stabilize non-active areas within 14 days of cessation of construction activities.
- 5) Control erosion in concentrated flow paths by applying erosion control blankets, erosion control seeding, and lining swales as required in the special provisions.

- 6) Seeding will be applied either during the defined seeding window, and/or to areas deemed substantially complete by the RE during the defined rainy season.
- 7) At completion of construction, apply permanent erosion control to all remaining disturbed soil areas.

In addition, sufficient quantities of temporary soil stabilization materials will be maintained on-site during the defined rainy season to protect non-stabilized disturbed soil areas prior to predicted rain events. Implementation and location of some temporary soil stabilization BMPs are shown on the Water Pollution Control Drawings (WPCDs) in Attachment B. The following temporary soil stabilization BMPs will be used on this project:

- SS-2, Preservation of Existing Vegetation
- SS-6, Straw Mulch (with tackifier)
- SS-7, Geotextiles, Plastic Covers, & Erosion Control Blankets/Mats
- SS-9, Earth Dikes/Drainage Swales & Lined Ditches

Implementation of Soil Stabilization BMPs

■ BMPs will be deployed in a sequence to follow the progress of grading and construction. As the locations of soil disturbance change, erosion and sedimentation controls will be adjusted accordingly to control storm water runoff at the downgrade perimeter and drain inlets. BMPs will be mobilized as follows:

Year-round:

- The water pollution control manager will monitor weather using National Weather Service reports to track conditions and alert crews to the onset of rainfall events.
- Disturbed areas will be stabilized, as required by Tables 2-2 and 2-3 of the *Construction Site Best Management Practices Manual*, with temporary soil stabilization, or with permanent erosion control as soon as possible after grading or construction is complete.

During the rainy season:

- Disturbed areas will be stabilized with temporary or permanent soil stabilization (erosion control) before rain events.
- Disturbed areas that are substantially complete will be stabilized with permanent soil stabilization (erosion control) and vegetation (if within seeding window for seed establishment).
- Prior to forecast storm events, temporary soil stabilization BMPs will be deployed and inspected.

During the non-rainy season:

■ The project schedule will sequence construction activities with the installation of both soil stabilization and sediment control measures. The construction schedule will be arranged as much as practicable to leave existing vegetation undisturbed until immediately prior to grading.

Straw Mulch

 Straw mulch will be primarily used throughout the disturbed areas adjacent to excavations and on shallow slopes surrounding the site. See the WPCDs in Attachment B of this SWPPP for locations where straw mulch will be used.

Geotextiles, Plastic Covers and Erosion Control Blankets/Mats

- Geotextile blankets will be used to provide temporary and long-term stabilization for the flow line of the vegetated swale on the western boundary of the project.
- Polyethylene covers will be used to cover exposed soil and sand stockpiled material areas. Covers will be placed over stockpiles prior to forecast storm events, and anchored to prevent damage by wind.

REQUIRED TEXT:

Soil stabilization, also referred to as erosion control, consists of source control measures that are designed to prevent soil particles from detaching and becoming suspended in storm water runoff. Soil stabilization BMPs protect the soil surface by covering and/or binding soil particles. This project will incorporate minimum temporary soil stabilization requirements, temporary soil stabilization measures required by the contract documents, and other measures selected by the contractor. This project will utilize and implement the following principles for effective temporary and final soil stabilization during construction:

- 1) Preserve existing vegetation where required and when feasible.
- 2) Apply temporary soil stabilization (erosion control) to remaining active and non-active areas as required by the Construction Site BMPs Manual and the Special Provisions. Reapply as necessary to maintain effectiveness.
- 3) Implement temporary soil stabilization measures at regular intervals throughout the defined rainy season to achieve and maintain the contract's disturbed soil area requirements. When the project's Special Provisions require it, temporary soil stabilization will be implemented 20 days prior to the defined rainy season.
- 4) Stabilize non-active areas within 14 days of cessation of construction activities.
- 5) Control erosion in concentrated flow paths by applying erosion control blankets, erosion control seeding, and lining swales as required in the special provisions.
- 6) Seeding will be applied either during the defined seeding window, and/or to areas deemed substantially complete by the RE during the defined rainy season.
- 7) At completion of construction, apply permanent erosion control to all remaining disturbed soil areas.

Sufficient quantities of temporary soil stabilization materials will be maintained on-site to allow implementation in conformance with Caltrans requirements and described in this SWPPP. This

includes implementation requirements for active areas, non-active areas, and areas that require deployment before the onset of rain.

Implementation and locations of temporary soil stabilization BMPs are shown on the Water Pollution Control Drawings (WPCDs) in Attachment B and/or described in this section. The BMP Consideration Checklist in Attachment C indicates the BMPs that will be implemented to control erosion on the construction site; these are:

- SS-1, Scheduling
- SS-2, Preservation of Existing Vegetation
- -

500.3.5 Sediment Control

INSTR	INSTRUCTIONS:					
	Select sediment control BMPs to be used and complete the Temporary Sediment Control BMPs section of the BMP Consideration Checklist in Attachment C. See Section 2 of the Caltrans "Storm Water Quality Handbooks, Construction Site Best Management Practices (BMPs) Manual", for instructions for selecting and implementing construction site BMPs and working details for construction site BMPs.					
	Provide introductory paragraphs that defines what is sediment control and give a general approach on how sediment control BMPs will be implemented at the draining perimeter of disturbed soil areas, at the toe of slopes, at inlets and outfall areas at all times.					
	List all the temporary sediment control BMPs to be used in the project.					
	Show selected temporary sediment control BMPs on the WPCDs. Provide a narrative description of temporary sediment control BMPs that cannot be adequately identified on the WPCDs.					
	Show BMPs used to divert off-site drainage around and/or through the construction project.					
	Discuss the on-site availability of temporary sediment control materials (materials kept for temporary sediment control BMPs) and proposed mobilization and implementation of temporary sediment control BMPs in the event of a predicted storm.					

EXAMPLE:

Sediment controls are structural measures that are intended to complement and enhance the soil stabilization (erosion control) measures. Sediment controls are designed to intercept and filter out soil particles that have been detached and transported by the force of water. This project will incorporate minimum temporary sediment control requirements, temporary sediment control measures required by the contract documents, and

other measures selected by the contractor. The temporary sediment control BMPs selected are adequate to prevent a net increase of sediment in storm water discharge relative to pre-construction levels.

In addition, sufficient quantities of temporary sediment control materials will be maintained on-site throughout the duration of the project to protect the active disturbed soil areas prior to predicted rain events and for rapid response to failures or emergencies. Implementation and location of temporary sediment control BMPs are shown on the Water Pollution Control Drawings (WPCDs) in Attachment B. The following temporary sediment control BMPs will be used on this project:

- SC-1, Silt fence
- SC-4, Check dams
- SC-5, Fiber rolls
- SC-7, Street Sweeping and Vacuuming
- SC-8, Sandbag barrier
- SC-10, Storm Drain Inlet Protection

Implementation of Temporary Sediment Controls

- Temporary sediment control BMPs will be deployed according to the schedule shown in SWPPP section 300.4.
- During the rainy season, temporary sediment controls will be implemented at the draining perimeter of disturbed soil areas, at the toe of slopes, at storm drain inlets and at outfall areas at all times.
- During the non-rainy season, temporary sediment controls will be implemented at the draining perimeter
 of disturbed soil areas and at storm drain downstream from disturbed areas before rain events.
- As shown on the WPCDs, silt fences will be deployed along the toe of exterior slopes to filter storm water runoff.
- Storm drain inlet protection will be used at all operational internal inlets to the storm drain system during the rainy season as shown on the WPCDs.
- During the non-rainy season, in the event of a predicted storm, the following temporary sediment control materials will be maintained on-site: silt fence materials, sandbags for linear barriers, fiber rolls

REQUIRED TEXT:

Sediment controls are structural measures that are intended to complement and enhance the selected soil stabilization (erosion control) measures. Sediment controls are designed to intercept and settle out soil particles that have been detached and transported by the force of water. This project will incorporate minimum temporary sediment control requirements, temporary sediment control measures required by the contract documents, and other measures selected by the contractor. The temporary sediment control BMPs selected are adequate to prevent a net increase of sediment in storm water discharge relative to pre-construction levels.

Sufficient quantities of temporary sediment control materials will be maintained on-site throughout the duration of the project, to allow implementation of temporary sediment controls in the event of

predicted rain, and for rapid response to failures or emergencies, in conformance with other Caltrans requirements and as described in this SWPPP. This includes implementation requirements for active areas and non-active areas before the onset of rain.

Implementation and locations of temporary sediment control BMPs are shown on the Water Pollution Control Drawings (WPCDs) in Attachment B. The BMP Consideration Checklist in Attachment C indicates all the BMPs that will be implemented to control sediment on the construction site; these are:

- SC-1, Silt Fence
- SC-7, Street Sweeping and Vacuuming
- SC-10, Storm Drain Inlet Protection

500.3.6 Tracking Control

INSTRUCTIONS:

Tracking controls shall be considered and implemented year round and throughout the duration of the
project, at all access (ingress/egress) points to the project site where vehicles and/or equipment may
track sediment from the construction site onto public or private roadways.

Select BMPs and provide a narrative description of tracking control BMPs that will be used to reduce sediment tracking onto public or private roads.
Show on the WPCDs the location of all ingress/egress points to the project site where sediment tracking is likely.
Describe measures to prevent sediment tracking in this section.

Ļ	Describe measures	to	prevent	sediment	tracking	in	this	sectio	n

	Discuss road-cleaning	BMPs
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EXAMPLE:

The following BMPs have been selected to reduce sediment tracking from the construction site onto private or public roads:

- SC-7, Street Sweeping and Vacuuming
- TC-1, Stabilized Construction Entrance/Exit

- TC-2, Stabilized Construction Roadway
- TC-3, Entrance/Outlet Tire Wash

BMPs to Reduce Sediment Tracking

Stabilized Construction Entrance/Exit

- A stabilized construction entrance/exit will be constructed and maintained at construction site entrances and exits as shown on the site map.
- The site entrance/exit will be stabilized to reduce tracking of sediment as a result of construction traffic. The entrance will be designated and graded to prevent runoff from leaving the site. Stabilization material will be 6-inch aggregate. The entrance will be flared where it meets the existing road to provide an adequate turning radius.

Stabilized Construction Roadway

■ The construction roadway through the site will also be designated and stabilized to prevent erosion and to control tracking of mud and soil material onto adjacent roads. The roadway will be clearly marked for limited speed to control dust. Refer to the WPCDs for entrance/exit and construction roadway locations. Stabilization material will be 6-inch aggregate. A regular maintenance program will be conducted to replace sediment-clogged stabilization material with new stabilization material.

Entrance/Outlet Tire Wash

■ An entrance/outlet tire wash station will be used to ensure that sediment tracking to public streets is minimized.

Road Cleaning BMPs - Street Sweeping and Vacuuming

Road sweeping and vacuuming will occur during soil hauling and as necessary to keep street clear of soil and debris. Washing of sediment tracked onto streets into storm drains will not occur.

REQUIRED TEXT:

The following BMPs have been selected to reduce sediment tracking from the construction site onto private or public roads:

- SC-7, Street Sweeping and Vacuuming

500.3.7 Wind Erosion Control

INSTRUCTIONS:

- Wind erosion control BMPs shall be considered and implemented year-round and throughout the duration of the project on all disturbed soils on the project site that are subject to wind erosion, and when significant wind and dry conditions are anticipated during project construction. The objective of wind controls is to prevent the transport of soil from soil disturbed areas of the project site, offsite by wind.
 - Select BMPs and provide a narrative description of BMPs that will be used to control dust during construction operations, including stockpile operations.

EXAMPLE:

The following BMPs have been selected to control dust from the construction site:

■ WE-1, Wind Erosion Control

Dust Control

- Potable water will be applied to disturbed soil areas of the project site to control dust and maintain optimum moisture levels for compaction. The water will be applied using water trucks. As shown on the project schedule, project soils will be disturbed and exposed from approximately May 1 through December 15. Water applications will be concentrated during the late summer and early fall months and especially during the embankment construction operations scheduled for July. The total water to be applied is expected to be between 3,000 and 5,000 m³.
- BMP WE-1, Wind Erosion Control, and BMP NS-1, Water Conservation Practices, will be implemented to provide dust control and prevent discharges from dust control activities and water supply equipment. Water application rates will be minimized as necessary to prevent runoff and ponding and water equipment leaks will be repaired immediately.
- During windy conditions (forecast or actual wind conditions of approximately 25 mph or greater), dust control will be applied to DSAs, including haul roads to adequately control wind erosion.
- BMP WM-3, Stockpile Management, using silt fences and plastic covers will be implemented to prevent wind dispersal of sediment from stockpiles.

REQUIRED TEXT:

The following BMPs have been selected to control dust from the construction site:

- WE-1, Wind Erosion Control

500.3.8 Non-Storm Water Control

INSTRUCTIONS:

- The Caltrans Statewide NPDES Permit defines non-storm water discharges as follows: "Non-storm water discharges consist of all discharges from a municipal storm water conveyance which do not originate from precipitation events (i.e., all discharges from a conveyance system other than storm water)."
- There are three types of non-storm water discharges as specified in the Permit:
 - 1) Illicit discharges unplanned
 - 2) Non-prohibited planned and unplanned
 - 3) NPDES permitted planned
- Non-storm water discharges into storm drainage systems or waterways, which are not authorized under the Caltrans Permit or authorized under a separate NPDES permit, are prohibited. Examples of prohibited discharges common to construction activities include:
 - Vehicle and equipment wash water, including concrete washout water
 - Slurries from concrete cutting and coring operations, PCC grinding or AC grinding operations
 - Slurries from concrete or mortar mixing operations
 - Blast residue from high-pressure washing of structures or surfaces
 - Wash water from cleaning painting equipment
 - Runoff from dust control applications of water or dust palliatives
 - Sanitary and septic wastes
 - Chemical spills of any kind including but not limited to petroleum, paints, cure compounds, etc.
- Discharges of construction materials and wastes, such as fuel or paint, resulting from dumping, spills, or direct contact with rainwater or storm water runoff are also prohibited and shall be addressed in Section 500.3.9, Waste Management and Materials Pollution Control.
- Some non-storm water discharges are authorized under the Caltrans Permit and need not be prohibited unless identified as a source of pollutants. However, specific control measures may be required to minimize adverse impacts from these discharges. Some RWQCBs may require a separate NPDES permit or specific monitoring and reporting requirements for authorized discharges. Check with the RE or the applicable RWQCB for requirements in the project area. Non-storm water discharges exempted by the Caltrans Permit include:
 - Flows from riparian habitats or wetlands
 - Diverted stream flows
 - Springs, rising groundwater, and
 - Uncontaminated groundwater infiltration
- Other discharges such as pumped groundwater, irrigation water and water line and hydrant flushing (see Caltrans Permit, Section B, Non-storm Water Discharge Prohibitions, item 3, Conditionally Exempt Discharges, for entire list), are not prohibited if they are identified as not being sources of pollutants to receiving waters or if appropriate control measures (BMPs) to minimize the adverse impacts of such sources are developed and implemented. Some RWQCBs may require a separate NPDES permit or

specific monitoring and reporting requirements for the conditionally exempt discharges. Check with the RE on what discharges are conditionally exempt.

Use the following process to identify, quantify, and select BMPs for non-storm water discharges. List each potential non-storm water discharge and provide the information addressed by each step. Complete the BMP Consideration Checklist in Attachment C to show selected BMPs.
Identify all potential non-storm water discharges within the project. Examine all project activities and determine what discharges will be generated or may be required in order to complete each activity, including mobile-type operations. Discuss how mobile operations, such as maintenance and fueling for large or stationary equipment, will be addressed. Examples of common construction activities that may result in non-storm water discharges on a project are:
- vehicle and equipment cleaning, fueling and maintenance
- surface water diversions,
- dewatering operations
- saw-cutting
- drilling
- boring
- AC and PCC grinding
- AC and PCC recycling
- Concrete mixing
- crushing
- bridge cleaning
- blasting
- painting
- hydro-demolition
- mortar mixing
- air-blown mortar, etc.
Describe each planned non-storm water discharge from the project into the storm drain system or waterway, including flow/quantity and expected pollutants. If a flow or quantity cannot be determined, then fully describe the nature and extent of the activity such that the quantity can be inferred. One-time discharges shall be monitored by the WPCM during the time that such discharges are occurring.
Describe each non-storm water source or activity that may generate a discharge; containment facilities and appurtenances that would be employed; and flow paths of discharge to downstream inlets, drainage facilities, and receiving waters. Where possible, depict BMP locations on the WPCDs.
Indicate the time period and frequency of each activity that generates or may generate a discharge.
Describe mandatory non-storm water control BMPs and practices required by Caltrans, the RWQCB (such as WDR requirements for projects that reuse Aerially Deposited Lead soils), other permits or other federal, state, or local agencies. Provide details and schedules as appropriate

for discharges covered by a separate NPDES permit.
Describe contractor-selected non-storm water control BMPs and practices to minimize, contain, and dispose prohibited discharges or to minimize adverse impacts of authorized discharges from the project into the storm drain system or waterway. BMPs within both the Non-Storm Water Management and the Materials Handling and Waste Management categories may be applicable to non-storm water discharges. Include maintenance, inspection, testing, and reporting procedures, if applicable.
Indicate how illicit connections and illegal discharges will be handled.

Include maintenance, increation, testing, and reporting requirements. Dravide normit information

EXAMPLE:

An inventory of construction activities and potential non-storm water discharges is provided in Section 5.3.1. The BMP Consideration Checklist in Attachment C and the following list indicates the BMPs that have been selected to control non-storm water pollution on the construction site. A narrative description of each BMP follows.

- NS-1, Water Conservation Practices
- NS-3, Paving and Grinding Operations
- NS-6, Illicit Connection/Illegal Discharge Detection and Reporting
- NS-8, Vehicle and Equipment Cleaning
- NS-9, Vehicle and Equipment Fueling
- NS-10, Vehicle and Equipment Maintenance
- WM-8, Concrete Waste Management

Illicit Connection/Illegal Discharge Detection and Reporting

■ The contractor will implement BMP NS-6, Illicit Connection/Illegal Discharge Detection and Reporting throughout the duration of the project.

Paving Operations

■ The project will include placement of approximately 80,000 m² of AC pavement. Paving locations and adjacent storm drain inlets are shown on WPCDs 2, 3, and 5. Paving operations will generally be conducted in August and September as shown on the project schedule in Section 300.4. BMP NS-3, Paving and Grinding Operations, will be implemented to prevent paving materials from being discharged off-site. Covers will be placed over each inlet adjacent to paving operations. The covers will consist of scrap carpeting placed over, and tucked under, each inlet grate. Following paving operations, the area will be swept, inlet covers will be removed, and the inlets will be inspected for paving materials.

Vehicle and Equipment Operations

 Several types of vehicles and equipment will be used on-site throughout the project, including graders, scrapers, excavators, loaders, paving equipment, rollers, trucks and trailers, backhoes, forklifts, generators, compressors, and traffic control equipment. BMPs NS-9, Vehicle and Equipment Fueling, and NS-10, Vehicle and Equipment Maintenance will be utilized to prevent discharges of fuel and other vehicle fluids. Except for concrete washout, which is addressed in Section 500.3.8, vehicle cleaning will not be performed on-site.

- A paved temporary fueling area will be constructed in the contractor's yard as shown on WPCD-4. All self-propelled vehicles will be fueled off-site or at the temporary fueling area. Fuel trucks, each equipped with absorbent spill clean-up materials, will be used for all on-site fueling, whether at the temporary fueling area or for mobile fueling elsewhere on the site. Drip pans will be used for all mobile fueling. The fueling truck will be parked on the paved fueling area for overnight storage.
- Drip pans or plastic sheeting will be used for all vehicle and equipment maintenance activities that involve grease, oil, solvents, or other vehicle fluids.
- All vehicle maintenance and mobile fueling operations will be conducted at least 15 m away from operational inlets and drainage facilities and on a level graded area.

Concrete Saw-cutting

- The project will include approximately 350 m of concrete saw-cutting at the on- and off-ramp project limits where traffic signal and ramp metering detection loops will be installed. Saw-cutting locations and adjacent storm drain inlets are shown on WPCDs 2, 3, and 4. Estimated saw-cutting dates are shown on the schedule in Section 300.4. Saw-cutting operations will not be conducted during or immediately prior to rainfall events. Saw-cutting operations are expected to produce about 1.5 m³ of waste slurry consisting of water and fine PCC grit.
- BMP WM-8, Concrete Waste Management, will be implemented to contain and dispose of saw-cutting slurries. Sandbags will be used to contain the slurry and prevent discharges to the storm drain system. Once contained by the sandbag barrier, the slurry will be vacuumed and discharged to the concrete washout facility described above. Dried and cured concrete wastes will be disposed off-site during concrete washout maintenance activities.

REQUIRED TEXT:

An inventory of construction activities and potential non-storm water discharges is provided in Section 5.3.1. The BMP Consideration Checklist in Attachment C and the following list indicates the BMPs that have been selected to control non-storm water pollution on the construction site. Implementation and locations of some non-storm water control BMPs are shown on the Water Pollution Control Drawings (WPCDs) in Attachment B. A narrative description of each BMP follows.

- NS-6, Illicit Connection/Illegal Discharge Detection and Reporting
- NS-8, Vehicle and Equipment Cleaning
- NS-9, Vehicle and Equipment Fueling
- NS-10, Vehicle and Equipment Maintenance

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500.3.9 Waste Management and Materials Pollution Control

INSTRUCTIONS:

- Waste management consists of implementing procedural and structural BMPs for collecting, handling, storing and disposing of wastes generated by a construction project to prevent the release of waste materials into storm water discharges. Wastes are going to be generated during construction; however, the methods in which the wastes are collected, stored, and removed will determine the success of the waste management activities. Construction site wastes can range from residues collected from non-storm water discharges (i.e. paint removal) to general site litter and debris (i.e. empty marker paint cans).
- Materials pollution control (materials handling) consist of implementing procedural and structural BMPs for handling, storing and using construction materials to prevent the release of those materials into storm water discharges. The amount and type of construction materials to be utilized at the site will be dependent upon the type of construction and the length of the construction period. The materials may be used continuously, such as fuel for vehicles and equipment, or the materials may be used for a discrete period, such as fertilizer for landscaping.
- Waste management and materials pollution control BMPs shall be implemented to minimize storm water contact with construction materials, wastes and service areas, and to prevent materials and wastes from being discharged off-site. The primary mechanisms for storm water contact that shall be addressed are:
 - Direct contact with precipitation
 - Contact with storm water run-on and runoff
 - Wind dispersion of loose materials
 - Direct discharge to the storm drain system through spills or dumping
- Extended contact with some materials and wastes, such as plated metals and treated wood products can also leach pollutants into storm water.

Use	the following process to identify and select BMPs for waste management and materials pollution trol.
	Review construction activities to identify and quantify likely construction materials and wastes. Identify materials and wastes with special handling or disposal requirements, such as lead contaminated soils, concrete sawing liquids, waste chemicals and empty chemical containers. (See Section 500.3.1)
	Substitute safer, less polluting products where possible. Substitution of materials and products require approval pursuant to the Standard Specifications.
	Use the BMP Consideration Checklist in Attachment C to identify Caltrans minimum requirements and additional BMPs selected to address project-specific activities.
	List the selected BMPs and describe proposed facilities for materials storage and waste management (including on-site storage and disposal of waste). Discuss how each storm water contact mechanism will be addressed. Include schedules, inspection, and maintenance requirements. Show facility locations and details on the WPCDs where possible.
	Describe proposed waste collection and removal schedules.

EXAMPLE:

An inventory of construction activities, materials, and wastes is provided in Section 5.3.1. The BMP Consideration Checklist in Attachment C and the following list indicates the BMPs that have been selected to control construction site wastes and materials. Implementation and locations of some materials handling and waste management BMPs are shown on the Water Pollution Control Drawings (WPCDs) in Attachment B. A narrative description of each BMP follows.

- WM-1, Material Delivery and Storage
- WM-2, Material Use
- WM-4, Spill Prevention and Control
- WM-5, Solid Waste Management
- WM-6, Hazardous Waste Management
- WM-08, Concrete Waste Management

Material Delivery, Storage, and Use

- In general, BMPs WM-1 and WM-2 will be implemented to help prevent discharges of construction materials during delivery, storage, and use. The general material storage area will be located in the contractor's yard as shown on WPCD-4. A sandbag barrier (BMP SC-8) will be provided around the storage area to prevent run-on from adjacent areas. Two types of storage/containment facilities will be provided within the storage area to minimize storm water contact with construction materials:
 - Two watertight shipping containers will be used to store hand tools, small parts, and most construction materials that can be carried by hand, such as paint cans, solvents and grease.
 - A separate covered storage/containment facility will be constructed adjacent to the shipping containers to provide storage for larger items such as drums and items shipped or stored on pallets. The containment facility will consist of a 3 m by 6 m raised concrete pad with 120 mm curbed sides. A wood frame and corrugated tin roof will be constructed to protect the facility from sun and rain. Corrugated tin sides will be added when necessary to provide additional protection from wind and rain. The facility will provide about 2 m³ (530 gal) of containment volume.
- Very large items, such as light standards, framing materials, and stockpiled lumber, will be stored in the open in the general storage area. Such materials will be elevated with wood blocks to minimize contact with run-on.
- Aggregate and base materials will also be stockpiled in the general storage area and will be surrounded with additional sediment controls (i.e., SC-8, Sandbag Barrier). Plastic covers (SS-7, Geotextiles, Plastic Covers, & Erosion Control Blankets/Mats) will be provided if necessary for wind/dust control.
- Spill clean-up materials, material safety data sheets, a material inventory, and emergency contact numbers will be maintained and stored in the southern shipping container.

Spill Prevention and Control

■ BMP WM-4, Spill Prevention and Control, will be implemented to contain and clean-up spills and prevent material discharges to the storm drain system. Spill prevention is also discussed above in Material Delivery, Storage, and below in the following waste management and equipment maintenance sections.

Waste Management

■ BMP WM-5, Solid Waste Management, and BMP WM-6, Hazardous Waste Management will be implemented to minimize storm water contact with waste materials and prevent waste discharges. Solid wastes will be loaded directly into trucks for off-site disposal. When on-site storage is necessary, solid wastes will be stored in watertight dumpsters in the general storage area of the contractors yard. Dumpster locations are shown on WPCD-4. AC and PCC rubble will be stockpiled in the general storage area and will be surrounded with sediment controls (SC-8, Sandbag Barrier). Solid waste, including rubble stockpiles, will be removed and disposed off-site at least weekly. ABC Waste Disposal (License CA999999) will provide solid waste disposal services. Hazardous wastes will be stored in the shipping containers or covered containment area discussed above for materials storage. Hazardous wastes will be appropriate and clearly marked containers and segregated from other non-waste materials.

Contaminated Soil Management

Contaminated soil management BMPs address the possibility of construction activity near contaminated soils. The construction site has no known history of contaminated soil or other impairments. However, employees will be instructed to recognize evidence of contaminated soil, such as buried debris, discolored soil, and unusual odors.

Concrete Residuals and Washout Wastes

- This project includes placement of about 100 m³ of concrete in four separate pours, the largest pour being approximately 40 m³. The estimated maximum washout volume is 0.10 m³. Discharges will consist of rinse water and residual concrete (Portland cement, aggregates, admixture, and water). Estimated pour dates are shown on the project schedule in Section 300.4. Concrete pours will not be conducted during or immediately prior to rainfall events.
- BMP WM-8, Concrete Waste Management, will be implemented and a below grade concrete washout facility will be constructed and maintained at the contractor's yard as shown on WPCD-4. All excess concrete and concrete washout slurries will be discharged to the washout facility for drying. The minimum-sized washout, at 3m x 3m x 1m deep, will provide more than sufficient volume to contain concrete washout wastes and waste collected from concrete saw-cutting operations, discussed below. BMP maintenance, waste disposal, and BMP removal will be conducted as described in WM-08. Dried-off concrete will be used as fill material if permitted by the RE.

Sanitary and Septic Wastes

The contractor will implement BMP WM-9, Sanitary and Septic Waste Management, and portable toilets will be located and maintained at the contractors yard for the duration of the project. Specific locations are shown on WPCD-4. Weekly maintenance will be provided each Wednesday by ABC Sanitation (license CA0Q45W) and wastes will be disposed off-site. The toilets will be located away from concentrated flow paths and traffic flow.

REQUIRED TEXT:

An inventory of construction activities, materials, and wastes is provided in Section 5.3.1. The BMP Consideration Checklist in Attachment C and the following list indicates the BMPs that have been selected to handle materials and control construction site wastes. A narrative description of each BMP follows.

- WM-1, Material Delivery and Storage
- WM- 2, Material Use
- WM-4, Spill Prevention and Control
- WM-5, Solid Waste Management
- WM-9, Sanitary/Septic Waste Management

INSTRUCTIONS:

500.4 Water Pollution Control Drawings (WPCDs)

Prepare water pollution control drawings (WPCDs) in conformance with these instructions and the requirements of the General Construction Permit requirements for a site map. Include the WPCDs

	uirements of the General Construction Permit requirements for a site map. Include the WPCDs as chment B to the SWPPP.
	Include a cover sheet(s) listing the BMPs that will be used, along with construction notes and a legend. Use standard symbols as depicted on the BMP fact sheets in the Caltrans <i>Storm Water Quality Handbooks, Construction Site BMP Manual (CSBMPM)</i> , or as shown in the Conceptual SWPPP (CSWPPP).
	Include detailed sheets showing construction details for the BMPs that will be used. Details provided in the CSBMPM may be used as appropriate. Additional details may be necessary to describe site-specific BMP applications. Use project layout, grading, stage construction, drainage sheets and/or erosion sheets as base sheets for the WPCDs. Use section 500.3, "Pollutant Source Identification and BMP Selection" as a guide to pollutant sources and BMPs for construction activities. Select BMPs that are appropriate for the site and show their locations on the site map.
The	base sheets shall show the construction project in detail, including:
	The construction site perimeter
	Geographic features within or immediately adjacent to the site. Include surface waters such as lakes, streams, springs, wetlands, estuaries, ponds, and the ocean.
	Site topography before and after construction. Include roads, paved areas, buildings, slopes, drainage facilities, and areas of known or suspected contamination.
	Permanent (post-construction) BMPs. These are usually shown on the project plans.

ı	Also	delineate the following site information:
		Discharge points from the project to off-site storm drain systems or receiving waters
		Tributary areas and drainage patterns across the project area (show using flow arrows)
		Tributary areas and drainage patterns to each on-site storm water inlet, receiving water or discharge point.
		Relevant drainage areas outside the site perimeter (Where relevant drainage areas are too large to depict on the drawings, use map notes or inserts illustrating the upstream drainage areas).
		Temporary on-site drainage(s) to carry concentrated flows
		Drainage patterns and slopes anticipated after major grading activities are completed
		Outline all areas of existing vegetation, soil cover, or native vegetation that will remain undisturbed during the project.
		Outline all areas of soil disturbance (disturbed soil areas, DSAs). Indicate which areas will be disturbed during the rainy season and which areas will be left exposed during the rainy season.
		Identify location(s) of contaminated or hazardous soils.
		Locate potential non-storm water discharges and activities, such as dewatering operations, concrete saw-cutting or coring, pressure washing, waterline flushing, diversions, cofferdams, and vehicle and equipment cleaning. If operations can't be located, provide a narrative description.
ı		w proposed locations for all construction site BMPs. Include additional detail drawings if necessary onvey site-specific configurations.
	•	Show temporary soil stabilization and temporary sediment control BMPs that will be used during construction. Including temporary on-site drainage(s) to carry concentrated flows, BMPs implemented to divert off-site drainage around or through the construction site, and BMPs that protect storm water inlets.
		Locate site ingress and egress points and any proposed temporary construction roads.
		Show BMPs to mitigate or eliminate non-storm water discharges
		Show BMPs for waste management and materials pollution control, including, but not limited to storage of soil or waste; construction material loading, unloading, storage and access areas; and areas designated for waste handling and disposal
		Show BMPs for vehicle and equipment storage, fueling, maintenance, and cleaning.
		Show location of all post-construction BMPs.
ı	con stor	Caltrans Permit states: "The SWPPP shall apply to all areas that are directly related to the struction activity, including but not limited to staging areas, storage yards, material borrow areas and age areas, access roads, etc., whether or not they reside within the Caltrans rights-of-way." refore:
		If the Contractor's yard for the project is not within the Caltrans right-of-way, but is located near the vicinity of the project, the WPCDs shall show all BMPs to be used at contractor's yard.

■ The WPCDs shall reflect the Contractor's phasing and/or construction staging, and shall address the entire scope of the contract work. (The contractor may address certain individual operations at a later date per the SWPPP amendment process established in Sections 200.1 and 200.2)

EXAMPLE:

The Water Pollution Control Drawings can be found in Attachment B of the SWPPP.

REQUIRED TEXT:

The Water Pollution Control Drawings can be found in Attachment B of the SWPPP.

500.5 Construction BMP Maintenance, Inspection and Repair

INSTRUCTIONS:

- The purpose of storm water inspections is to evaluate BMP effectiveness and implement repairs or design changes as soon as feasible.
- Inspections shall be completed by the Contractor's WPCM.
- Inspections are recommended on a regular basis during dry weather. The purpose of dry-weather inspections is to ensure proper implementation of BMPs that are not necessarily weather-related. Examples include non-storm water, waste management, and sediment tracking control BMPs.
- A sample maintenance, inspection, and repair program is shown in Attachment G.
- A checklist is required during each inspection. A Storm Water Quality Construction Site Inspection Checklist is included as Attachment H in Appendix A. This checklist shall be used for all inspections unless the project's Special Provisions require the Contractor to use a different checklist.
- Inspections are required:
 - Prior to a forecast storm
 - after a rain event that causes runoff from the construction site
 - at 24-hour intervals during extended rain events
 - at any other time(s) or intervals of time specified in the project Special Provisions
- Completed inspection checklists shall be submitted to the RE within 24 hours of inspection. Copies of the completed checklists shall be kept with the SWPPP.
- A tracking or follow-up procedure shall follow any inspection that identifies deficiencies in BMPs.
 - Include a discussion of the program to inspect and maintain all BMPs as identified in the site plan or other narrative documents throughout the duration of the project. Insert the complete program as Attachment G.

EXAMPLE:

A program for Maintenance, Inspection and Repair of BMPs is shown in Attachment G.



REQUIRED TEXT

A program for Maintenance, Inspection and Repair of BMPs is shown in Attachment G.

500.6 Post-Construction Storm Water Management

500.6.1 Post-Construction Control Practices

INSTRUCTIONS:

- Post-Construction BMPs are permanent measures installed during construction, designed to reduce or eliminate pollutant discharges from the site after construction is completed. Caltrans may provide listings, descriptions and special operations and maintenance requirements for post-construction BMPs in the Storm Water Information Handout.
 - Provide descriptions of the BMPs employed after all construction phases have been completed at the site (Post-Construction BMPs). Examples of post-construction measures are:
 - infiltration basins,
 - detention/retention devices.
 - vegetated strips and/or swales,
 - biofilters
 - permanent erosion control, seeding and planting,
 - outlet protection/velocity dissipation devices,
 - earth dikes, drainage swales, and lined ditches,
 - bridge slope protection,
 - rock slope protection,
 - mulching,
 - verification that interior drains are not connected to a storm sewer system.

EXAMPLE:

The following are the post-construction BMPs that are to be used at this construction site after all construction is complete:

- Outlet protection/velocity dissipation devices at all culvert outlets.
- Rock slope protection in slopes under and adjacent to all bridges.
- All other slopes will be seeded with Erosion Control Type D, planted and protected with wood mulch.
- All drainage swales and dikes will be concrete lined.
- An infiltration basin will be constructed.

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The following are the post-construction	BMPs that are to l	be used at this co	onstruction site	after all
construction is complete:				

500.6.2 Operation/Maintenance after Project Completion

INSTRUCTIONS:

- Describe the following information regarding post-construction BMPs. Caltrans may provide specific language for any operations and maintenance requirements of post-construction control practices via the Storm Water Information Handout or the Resident Engineer. Any pertinent language provided by Caltrans shall be added by the Contractor to this section of the SWPPP.
 - List the parties responsible for long term operation and maintenance of permanent BMPs. One of three alternatives must be included: (1) Caltrans regional maintenance staff; (2) a local agency or municipality; or (3) Caltrans maintenance staff and local agency or municipality (if the project maintenance will be shared or a portion of the project is to be maintained by a local agency). This information may be provided by Caltrans.
 - short and long term funding sources for operations and maintenance

EXAMPLE:

The post-construction BMPs that are described above will be funded and maintained as follows:

Short Term Funding: Caltrans District 7 Maintenance

Long Term Funding: Caltrans District 7 Maintenance

The responsible party for the post-construction BMPs is Caltrans District 7 Maintenance

REQUIRED TEXT:

The post-construction BMPs that are described above will be funded and maintained as follows:

Short Term Funding:

Long Term Funding:

The responsible party for the long-term maintenance of post-construction BMPs is Enter one of three alternatives listed in the instructions.

Insert any additional language provided by Caltrans or delete this line.

500.7 Training

INSTRUCTIONS:

- Individuals responsible for SWPPP preparation, implementation, and permit compliance are required to be trained, and the SWPPP shall document all training. This includes those personnel responsible for installation, inspection, maintenance, and repair of BMPs. Describe the types of training that the contractor's inspection, maintenance, and repair personnel have received or will receive that are directly related to storm water pollution prevention.
- Training may be both formal and informal
- Formal storm water pollution prevention or erosion and sediment control training sessions may include workshops offered by the SWRCB, RWQCB, or other locally recognized agencies or professional organizations. Contractors are encouraged to contact the RWQCB or the SWRCB to inquire about availability of training.
- The Contractor's Water Pollution Control Manager (WPCM) and the SWPPP preparer shall have a minimum of 24-hours (3 days) of formal storm water pollution prevention training.
- On-site storm water pollution prevention training shall be conducted on an on-going basis.
 - Document storm water training using the sample training log sheet provided as Attachment I.

EXAMPLE:

Informal training will include tailgate site briefings to be conducted bi-weekly and address the following topics:

- Erosion Control BMPs
- Sediment Control BMPs
- Non-Storm Water BMPs
- Waste Management and Materials Pollution Control BMPs
- Emergency Procedures specific to the construction site storm water management

The WPCM attended a three (3) day construction storm water management course given by the County of Los Angeles Storm Water Program in October of 1999. Other personnel attending tailgate training will document attendance using the form in Attachment I.

If needed, formal training sessions will be selected from one of the following organizations:

- City of Los Angeles Storm Water Program
- County of Los Angeles Storm Water Program

- State of California Regional Water Quality Control Board
- USEPA sponsored training
- Recognized municipal stakeholder organizations throughout California
- Professional organizations and societies in the building and construction field

This SWPPP was prepared by ABC Engineering, under the direction of Mr. John Doe, a registered Professional Engineer in the State of California.

REQUIRED TEXT:

Section 300.5 shows the name of the contractor's Water Pollution Control Manager (WPCM). This person has received the following training:

The training log showing formal and informal training of various personnel is shown in Attachment I

This SWPPP was prepared by insert company, name and registration or qualifications of person that prepared the SWPPP

500.8 List of Subcontractors

INSTRUCTIONS:

- The SWPPP is required to include a list of names of all contractors, (or subcontractors) and individuals responsible for implementation of the SWPPP. This list shall include telephone numbers and addresses. Specific areas of responsibility of each subcontractor (type of work to be performed) and emergency contact numbers shall also be included.
- A sample sub-contractor notification letter and log is provided as Attachment J. Discuss pertinent conditions in the contractual agreement and/or letter of approval that address subcontractor responsibility for General Permit compliance.
 - Include a completed Attachment J in the SWPPP.

EXAMPLE:

All contractors and subcontractors will be notified of the requirement for storm water management measures during the project. A list of contractors will be maintained and included in the SWPPP. If subcontractors change during the project, the list will be updated accordingly. The sub-contractor notification letter and log is included in the SWPPP as Attachment J.

REQUIRED TEXT:

All contractors and subcontractors will be notified of the requirement for storm water management measures during the project. A list of contractors will be maintained and included in the SWPPP. If subcontractors change during the project, the list will be updated accordingly. The sub-contractor notification letter and log is included in the SWPPP as Attachment J.

500.9 Other Plans/Permits

INSTR	INSTRUCTIONS:		
•	The SWPPP shall incorporate appropriate elements of other plans or permits required by local, State, or Federal agencies.		
	Include a copy of the Caltrans Statewide Permit CAS000003 and the General Permit CAS000002.		
	Provide a list of all of the other plans and permits in this section, and describe of any special requirements for each permit. Insert additional bullets as needed. Delete bullets if not needed.		
	Include a copy of all other plans/permits as Attachment N of the SWPPP.		

EXAMPLE:

Following is a list of the plans and permits included in Attachment N of this SWPPP.

- State Water Resources Control Board (SWRCB) Order No. 99-06-DWQ, NPDES No. CAS000003, National Pollutant Discharge Elimination System (NPDES) Permit, Statewide Storm Water Permit and Waste Discharge Requirements (WDRs) for the State of California, Department of Transportation (Caltrans), July 1999.
- State Water Resources Control Board (SWRCB) Order No. 99-08-DWQ, National Pollutant Discharge Elimination System (NPDES) General Permit No. CAS000002, Waste Discharge Requirements (WDRs) for Discharges of Storm Water Runoff Associated with Construction Activity, August 1999.
- California Department of Fish and Game Code section 1601 Streambed Alteration Agreement
- Clean Water Act section 401 Water Quality Certification issued by the State of California as processed through the RWQCB
- U.S. Army Corps of Engineers Clean Water Act section 404 Nationwide Permit

REQUIRED TEXT:

Attachment N includes copies of other local, state, and federal plans and permits.

Following is a list of the plans and permits included in Attachment N:

■ State Water Resources Control Board (SWRCB) Order No. 99-06-DWQ, NPDES No. CAS000003, National Pollutant Discharge Elimination System (NPDES) Permit, Statewide

Storm Water Permit and Waste Discharge Requirements (WDRs) for the State of California, Department of Transportation (Caltrans), July 1999.

- State Water Resources Control Board (SWRCB) Order No. 99-08-DWQ, National Pollutant Discharge Elimination System (NPDES) General Permit No. CAS000002, Waste Discharge Requirements (WDRs) for Discharges of Storm Water Runoff Associated with Construction Activity, August 1999.
- Insert name(s), date(s) and source(s) of other local, state of federal plans or permits here

Section 600 Monitoring Program and Reports

600.1 Site Inspections

INSTRUCTIONS:

- Include a Separator and Tab for Section 600 for ready reference.
- The site shall be inspected:
 - Prior to a forecast storm
 - after a rain event that causes runoff from the construction site
 - at 24-hour intervals during extended rain events
 - as specified in the project Special Provisions
- BMPs shall be evaluated for adequacy and proper implementation and whether additional BMPs are required in accordance with the terms of the Permits.
- Implementation of non-storm water discharge BMPs shall be verified and their effectiveness evaluated.
- One time discharges of non-storm water shall be inspected when such discharges occur.
- The results of the inspections and assessments shall be recorded on the Storm Water Quality Construction Site Inspection Checklist included in Appendix A to the "SWPPP and WPCP Preparation Manual", Attachment H. This checklist shall be used for all inspections unless the project's Special Provisions require the Contractor to use a different checklist.
- A copy of each completed Storm Water Quality Construction Site Inspection Checklist shall be provided to the RE and a copy attached to the on-site SWPPP. A tracking or follow-up procedure shall follow any inspection that identifies deficiencies in BMPs.

REQUIRED TEXT:

The contractor will inspect the site prior to a forecast storm, after a rain event that causes runoff from the construction site, at 24-hour intervals during extended rain events, and as specified in the project Special Provisions. The results of all inspections and assessments will be documented and copies of the completed inspection checklists will be maintained with the SWPPP. Site inspections conducted for monitoring purposes will be performed using the inspection checklist shown in Attachment H.

The name(s) and contact number(s) of the assigned inspection personnel are listed below:

Assigned inspector: Name of Inspector Contact phone: Telephone Number

600.2 Discharge Reporting

INSTRUCTIONS:

- Discharges will be reported in writing to the Resident Engineer verbally upon discovery and in writing within 7 days of occurrence. A sample form for reporting discharges is shown in Attachment K.
- Note: USEPA has issued regulations that define Reportable Quantity (RQ) levels for oil and hazardous substances. These regulations are found in the Code of Federal Regulations at 40 CFR Part 110, Part 117, or Part 302.
 - For example, an oily sheen in storm water runoff as a result of a spill or release is an exceedance
 of a RQ level. The RQ level for dieldrin, a pesticide, is 1 kilogram. A spill or release of one or more
 kg of dieldrin is an exceedance of the RQ threshold.

REQUIRED TEXT:

If a discharge occurs or if the project receives a written notice or order from any regulatory agency, the contractor will immediately notify the Engineer and will file a written report to the RE within 7 days of the discharge event, notice, or order. Corrective measures will be implemented immediately following the discharge, notice or order. A sample discharge form is provided in Attachment K.

The report to the RE will contain the following items:

- The date, time, location, nature of operation, and type of unauthorized discharge, including the cause or nature of the notice or order,
- The control measures (BMPs) deployed before the discharge event, or prior to receiving notice or order,
- The date of deployment and type of control measures (BMPs) deployed after the discharge event, or after receiving the notice or order, including additional measures installed or planned to reduce or prevent re-occurrence, and
- An implementation and maintenance schedule for any affected BMPs

600.3 Record Keeping and Reports

REQUIRED TEXT:

Records shall be retained for a minimum of three years for the following items:

- Site inspections
- Compliance certifications
- Discharge reports
- Approved SWPPP document and amendments

Section 3 Preparing a Water Pollution Control Program (WPCP)

3.1 Preparation and Approval of a WPCP

The Special Provisions require the contractor to prepare a Water Pollution Control Program (WPCP) for each project resulting in less than 2 ha (5 ac) of soil disturbance or not otherwise subject to the requirements of the NPDES program. The WPCP must comply with Caltrans Standard Specifications Section 7-1.01G – Water Pollution, and must be prepared in accordance with the Special Provisions following the procedures and format set forth in this Manual.

The section provides detailed, step-by-step procedures, instructions and a template that contractors shall use to prepare a WPCP. Instructions for selection and implementation of construction site BMPs, and working details for the BMPs, are presented in Caltrans *Storm Water Quality Handbooks – Construction Site Best Management Practices (BMPs) Manual.*

The contractor shall prepare and submit the completed WPCP to the Caltrans Resident Engineer (RE) for review and approval. If revisions are required, as determined by the RE, the contractor must revise and resubmit the WPCP. The time frames for WPCP submittal, review, and resubmittal are specified in the Special Provisions. No activity having the potential to cause water pollution, as determined by the RE, shall be performed until the WPCP has been approved by the RE. In order to allow construction activities to proceed, the RE may conditionally approve the WPCP while minor amendments are being completed. Construction activities that will not threaten water quality, such as traffic control, may proceed without an approved WPCP if allowed by the RE. The WPCP shall be submitted to Caltrans in a 3-ring binder with separators and tabs.

3.1.1 Information Provided by Caltrans

In addition to information shown on the project plans, Caltrans may supply to the contractor certain information developed during the design process. The contractor shall use this information to prepare the WPCP, as appropriate. Items that may be provided are:

- Topographic map of the project area
- Soils/geotechnical report, project materials report and/or other reports for description of soils types, nature of fill materials and known buried hazardous or toxic materials
- List of pre-construction (existing) control practices
- List of and/or narrative description of permanent post-construction storm water control measures
- List or copies of other plans/permits

- Copy of project drainage report for identifying flow patterns and tributary areas
- Construction site estimates such as area calculations, runoff coefficients and pervious area calculations

3.1.2 Minimum Requirements for Construction Sites

In order to ensure a minimum level of water pollution control, Caltrans has designated some BMPs as minimum requirements that contractors must implement during construction of highway projects statewide. These minimum requirements are listed in Table 3-1 and are also indicated in Appendix A, Attachment C. The Caltrans "Storm Water Quality Handbooks, Construction Site Best Management Practices (BMPs) Manual," provides instructions for selecting and implementing construction site BMPs and working details for construction site BMPs.

3.2 WPCP Template

This section provides step-by-step WPCP preparation procedures, instructions and a template. The template has been developed in Microsoft® Word 97 with the following objectives:

- (1) to make it easier for contractors to prepare WPCPs (instructions and examples can be viewed in the template while the WPCP is being prepared).
- (2) to make sure that all WPCPs prepared and submitted to Caltrans are consistent (thus making the review and approval process more efficient). Contractors may download the template from the Caltrans Web site at: http://www.dot.ca.gov/hq/construc/

Once a contractor has developed the text for the various sections of the WPCP, including instructions, examples and the completed text for each section, can be printed. The instructions include "check box" items that the preparer may use to review his/her own work and check each of the items as they are completed.

The Contractor's final WPCP can then be viewed to check format and perform final edits as necessary. The document can then be printed without instructions and examples by going to the menu bar in MS Word, selecting the "TOOLS" menu, selecting "OPTIONS" and making sure that the HIDDEN TEXT checkboxes under both the VIEW and PRINT tabs are cleared.

The format of the WPCP includes the following sections:

- Section 10.0 Project Description and Contractor's Certification
- Section 20.0 Project Information
- Section 30.0 Pollution Sources and Control Measures
- Section 40.0 Amendments

Table 3-1

	CONSTRUCTION SITE BMPs MINIMUM REQUIREMENTS (1)					
TEMPO	TEMPORARY SOIL STABILIZATION					
SS-1	Scheduling					
SS-2	Preservation of Existing Vegetation					
SS-3	Hydraulic Mulch (2)					
SS-4	Hydroseeding (2)					
SS-5	Soil Binders (2)					
SS-6	Straw Mulch (2)					
SS-7	Geotextiles, Plastic Covers, & Erosion Control Blankets/Mats (2)					
TEMPO	RARY SEDIMENT CONTROL					
SC-1	Silt Fence					
SC-7	Street Sweeping and Vacuuming					
SC-10	Storm Drain Inlet Protection					
WIND E	WIND EROSION CONTROL					
WE-1	Wind Erosion Control					
NON-ST	ORM WATER MANAGEMENT					
NS-6	Illicit Connection/Illegal Discharge Detection and Reporting					
NS-8	Vehicle and Equipment Cleaning					
NS-9	Vehicle and Equipment Fueling					
NS-10	Vehicle and Equipment Maintenance					
WASTE	WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL					
WM-1	Material Delivery and Storage					
WM-2	Material Use					
WM-4	Spill Prevention and Control					
WM-5	Solid Waste Management					
WM-9	Sanitary/Septic Waste Management					

 $^{^{(1)}}$ Not all minimum requirements may be applicable to every project. Applicability to a specific project shall be verified by the contractor or determined by Caltrans.

⁽²⁾ The Contractor shall select one of five of the identified soil stabilization measures or a combination thereof to achieve and maintain the contract's disturbed soil area (DSA) protection requirements.

Section 10.0 Title Page and WPCP Certification and Approval

10.1 Title Page

INSTRUCTIONS	
■ Fill in the following information:	
REQUIRED TEXT	
1. Name of the Project:	
2. Caltrans Contract Number:	
3. Prepared For:	
Name of Lead Agency	
Address 1	
Address 2	
City, State, ZIP	
Resident Engineer's Name	
Resident Engineer's Telephone Number	() -
4. Submitted By:	
Contractor's Company Name	
Address 1	
Address 2	
City, State, ZIP	
Telephone	() -
Owner/Representative's Name	
5. Project Site Address	
Enter job site address, if any	
Enter job site telephone number, if any	
6. Contractor's Water Pollution Control Mgr.	
WPCM's Name	
Telephone(s)	() -
7. WPCP Prepared by	
Company Name	
Address 1	
Address 2	
City, State, Zip Code:	/ \
Phone	_() -
Name and Title of Preparer	
WPCP Preparation Date	

Date

10.2 Contractor's Certification and Approval by the Resident Engineer

INSTRUCTIONS

The contractor, authorized and required by the Special Provisions to prepare and implement the WPCP, shall provide and sign the following certification:

REQUIRED TEXT

CONTRACTOR'S CERTIFICATION OF WPCP

"I certify under a penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted, to the best of my knowledge and belief is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature	Date	
_		
Name and Title	Talanhana Numbar	
Name and The	Telephone Number	

INSTRUCTIONS

The Caltrans Resident Engineer, as the authorized owner's representative, shall provide and sign the following certification upon approval of the WPCP.

REQUIRED TEXT

For Use by Caltrans Only

RESIDENT ENGINEER'S APPROVAL OF WPCP

I, and/or personnel acting under my direction and supervision, have reviewed this WPCP and find that it meets the requirements set forth in the Special Provisions, the Caltrans Construction Site Best Management Practices Manual, and the Standard Specifications Section 7-1.01G - Water Pollution.

RE's Signature	Date of WPCP Approval	
	() -	
RE's Name (printed)	RE's Phone Number	_

Section 20.0 **Project Information**

INSTRUCTIONS

•		the following questions in a narrative format that can be easily understood by a person who is iar with the project.
	_	oduction and Project Description: Provide a brief description of the project.
		Describe the type(s) of work that will be performed.
		Provide a brief description of the project location, including descriptive items such as county, route, post mile, city, and street names.
		Describe proximity to receiving waters to which the project will discharge, including surface waters, drainage channels, and drainage systems.
		Identify drainage system owners (municipality or agency).
	Unio	que Site Features:
		Provide a brief description of any unique site features (water bodies, wetlands, environmentally sensitive area, endangered or protected species, etc.)
		Describe significant or high-risk activities that may impact storm water quality. Include any unique features or activities within or adjacent to water bodies (such as dredging, re-use of aerially deposited lead material, large excavations, or work within a water body).
	clea sche	ect Schedule: Provide a project schedule, either written or graphical. The schedule shall rly show how the rainy season relates to soil-disturbing and re-stabilization activities. The edule only needs to be detailed enough to show major activities sequenced with the lementation of construction site BMPs, including:
		project start and finish dates
		rainy season dates
		date(s) for annual certifications
		mobilization dates
		mass clearing and grubbing, roadside clearing dates
		major grading and excavation dates
		dates for special activities named in other permits, such as Fish and Game
		rainy season implementation schedule
		deployment of temporary soil stabilization BMPs
		deployment of temporary sediment control BMPs
		deployment of non-storm water BMPs
		deployment of waste management and materials pollution control BMPs

	paving, sawcutting, and any other pavement related operations
	planned stockpiling operations
	dates for other significant long-term operations or activities that may plan non-storm water discharges such as dewatering, grinding, etc.
Pollu	tant Source Identification:
	Review the contract documents and associated environmental documents to determine the known site contaminants and list them in this section.
	Review proposed construction activities and associated materials and wastes. Provide a list of those that have the potential to contribute to the discharge of pollutants to storm water.

EXAMPLE

1. Introduction and Project Description

The project consists of sound wall construction, shoulder work, and PCC pavement removal and replacement along approximately 400 m of highway. The project is located on northbound I-5 in Stockton (San Joaquin County), north from W. March Lane. Project runoff is conveyed approximately 800 m south to the Calaveras River via a combination of Caltrans-owned roadside ditches and underground drainage facilities. The Calaveras River discharges to the San Joaquin River approximately 3 km downstream from I-5. The total disturbed area is about 1 ha.

2. Unique Site Features

Relative proximity to Calaveras and San Joaquin rivers.

3. Schedule

The attached project schedule shows the projected progress of the project and includes implementation of water pollution control items.

4. Potential Pollutant Sources:

The primary construction activities, related materials, and wastes that have the potential to pollute storm water include:

- a) Soil disturbing activities and resulting exposed sol areas, including minor grading along the shoulder and trenching for conduits and sound wall footings.
- b) Slurries from mortar mixing and PCC saw-cutting and placement
- c) Solid wastes from PCC demolition and removal, sound-wall construction, and form work
- d) Temporary on-site storage of construction materials, including mortar mix, raw landscaping and soil stabilization materials, treated lumber, rebar, and plated metal fencing materials
- e) General site litter

REQUIRED TEXT
1. Introduction and Project Description:
2. Unique Site Features:
3. Project Schedule:
4. Potential Pollutant Sources :

Insert SAMPLE WATER POLLUTION CONTROL SCHEDULE here

Section 30.0 Pollution Sources and Control Measures

INSTRUCTIONS

In this section, the Contractor shall describe the construction activities and the control practices (BMPs) that will be used to reduce or eliminate pollutant discharges from the construction site. The BMP selection process is an iterative process that first identifies the potential sources of pollution and then selects the tools (BMPs) to develop an effective WPCP.

For	each of the following BMP categories:									
		Identify all contract required BMPs (BMPs included as separate contract items or otherwise required by the Special Provisions)								
	Identify minimu	Identify minimum required BMPs (as indicated in the BMP selection tables)								
	•	tional BMPs necessary to eliminate or reduce the pollutants identified in tant Sources" in Section 20.								
	Management P	of the Caltrans Storm Water Quality Handbooks, Construction Site Best Practices (BMPs) Manual, for instructions for selection and implementation of king details for construction site BMPs.								
Cor	mplete the BMP	consideration checklists and descriptions in each of the following sections:								
	30.1	Soil Stabilization (Erosion Control) and Sediment Control								
	30.2	Non-Storm Water Management BMPs								
	30.3	Materials Handling and Waste Management BMPs								
	ow the selected E ction 30.4.	BMPs on the Water Pollution Control Drawings (WPCDs) as described in								

30.1 Soil Stabilization (Erosion Control) and Sediment Control

INSTRUCTIONS

- Use each of the following sections to evaluate, select, and identify erosion and sediment controls that will be implemented during the project.
 - 30.1.1 Soil Stabilization Practices
 - 30.1.2 Sediment Control Practices
 - 30.1.3 Sediment Tracking Controls
 - 30.1.4 Wind Erosion Controls

30.1.1 Soil Stabilization Practices

INSTRUCTIONS

- Soil stabilization consists of source control measures that are designed to prevent soil particles from detaching and becoming suspended in storm water runoff. Soil stabilization BMPs protect the soil surface by covering and/or binding the soil particles.
- Provide a brief description of soil-disturbing activities, such as clearing and grubbing, grading, excavation, trenching, etc. Show the limits of the soil disturbed areas on the WPCDs.
- Complete the following selection table for temporary soil stabilization BMPs. All listed BMPs shall be considered for the project.
- If the project will not create soil disturbed areas, state as such and check "Not Used" for all BMPs in the soil stabilization selection table and enter "N/A" as the reason not used.
- If soil stabilization practices are not applicable, check "Not Used", and state why (i.e., no soil disturbed areas, soil stabilization BMPs not required based on project location, season and slopes) and state N/A (not applicable) in the table below.

EXAMPLE

Soil disturbing activities consist of minor grading along the shoulder and trenching for utilities and sound wall footings as shown on WPCD 2. Existing vegetation will be preserved outside the immediate construction zone as shown. Sub-base materials will be left in place during PCC removal and replacement, thus site soils will not be exposed in those areas.

REQUIRED TEXT	
	_

TEMPORARY SOIL STABILIZATION BMPs						
BMP No.	ВМР	MINIMUM REQUIREMENT	CHECK IF CONTRACT REQUIREMENT	CHECK IF USED	CHECK IF NOT USED	IF NOT USED, STATE REASON
SS-1	Scheduling	~				
SS-2	Preservation of Existing Vegetation	V				
SS-3	Hydraulic Mulch	✓ ⁽¹⁾				
SS-4	Hydroseeding	✓ ⁽¹⁾				
SS-5	Soil Binder	✓ ⁽¹⁾				
SS-6	Straw Mulch	✓ ⁽¹⁾				
SS-7	Geotextiles, Plastic Covers, & Erosion Control Blankets/Mats	✓ ⁽¹⁾				
SS-8	Wood Mulching					
	orary Concentrated Conveyance Controls					
SS-9	Earth Dikes/Drainage Swales & Lined Ditches					
SS-10	Outlet Protection/ Velocity Dissipation Devices					
SS-11	Slope Drains					

⁽¹⁾ The Contractor shall select one of the five measures listed or a combination thereof to achieve and maintain the contract's disturbed soil area (DSA) protection requirements.

30.1.1.1 Selected Soil Stabilization BMPs

INSTRUCTIONS

Describe the locations and scheduled applications for each selected soil stabilization BMP.

EXAMPLE

SS-2 Preservation of Existing Vegetation

Clearing and grubbing will be limited to the boundaries of active construction as shown on WPCD-2. Surrounding areas of existing vegetation will be protected in conformance with SS-2, Preservation of Existing Vegetation.

SS-5 Soil Binders (Copolymer)

BMP SS-5 was selected to minimize interference with the final (permanent) erosion control measures (paving and decorative landscaping). Soil binders will be applied to all non-active soil disturbed areas during the rainy season in conformance with the DSA protection requirements in the Construction Site BMP Manual.

REQUIRED TEXT

30.1.2 Sediment Control Practices

INSTRUCTIONS

- Sediment controls are used to complement and enhance the selected soil stabilization measures. Sediment controls are designed to intercept runoff and capture suspended soil particles through a settlement or filtration process.
- Provide a brief description of soil disturbed areas that will necessitate sediment control BMPs.
 References to the WPCDs and/or Section 30.1.1 are often sufficient.
- Complete the following selection table for temporary sediment control BMPs. All listed BMPs shall be considered for the project.
- Show selected BMPs on the WPCDs.
- If sediment controls are not applicable, state why (no soil disturbed areas, sediment controls not required based on project location, season, and slopes). Check "Not Used" for all BMPs in the sediment control BMP selection table and enter "N/A" for reason not used.

EXAMPLE 1

Disturbed soil areas are discussed in Section 30.1.1 and are shown on WPCD-2.

EXAMPLE 2

Not Applicable. All project slopes are less than 5% (1:20). According to Table X-X of the Construction Site BMPs Manual, sediment controls are not required.

REQUIRED TEXT		

	TEMPORARY SEDIMENT CONTROL BMPs						
BMP No.	ВМР	MINIMUM REQUIREMENT	CHECK IF CONTRACT REQUIREMENT	CHECK IF USED	CHECK IF NOT USED	IF NOT USED, STATE REASON	
SC-1	Silt Fence	~					
SC-2	Desilting Basin						
SC-3	Sediment Trap						
SC-4	Check Dam						
SC-5	Fiber Rolls						
SC-6	Gravel Bag Berm						
SC-7	Street Sweeping and Vacuuming	~					
SC-8	Sandbag Barrier						
SC-9	Straw Bale Barrier						
SC-10	Storm Drain Inlet Protection	V					

30.1.2.1 Selected Sediment Control BMPs

INSTRUCTIONS

■ Describe the locations and scheduled applications for each selected sediment control BMP.

EXAMPLE

According to the Construction Site BMP Manual, sediment controls for this project are required during the rainy season - continuously on non-active DSAs and before rain on active DSAs. Deployment locations will be as follows:

SC-1 Silt Fence

Silt fence will be deployed along the downstream (southern) construction site perimeter as shown on WPCD-2. Once the drainage channel is constructed and lined, silt fence will be extended north, along each side of the channel. See SC-4, Check Dam, below.

SC-4 Check Dams

Concentrated flows will be conveyed by the drainage channel that runs north-south, adjacent to the shoulder. During channel construction, sediment control will be provided by sand bag check dams, spaced at 10 m. Once the channel is lined, silt fence will be installed along the channel banks to prevent sediment from entering the channel.

REQUIRED TEXT			

30.1.3 Tracking Control

INSTRUCTIONS

- Sediment tracking controls are intended to minimize off-site sediment tracking and/or clean up tracked sediment before it enters the storm drain system or becomes a public nuisance. Sediment tracking control BMPs must be considered for each site exit point where vehicles and/or equipment may track sediment onto public or private roads.
- Show site entrance/exit locations on the WPCDs.
- Provide a brief description of any site-specific conditions, such as clayey soils, that may make tracking particularly troublesome.
- If tracking controls are not required, state why (no disturbed soil areas). Check "Not Used" for each BMP in the sediment tracking selection table and enter "N/A" for reason not used.

EXAMPLE

Site exit locations are shown on WPCD-2.

REQUIRED TEXT		
-		

	TRACKING CONTROL BMPs							
	Complete the following table. The Contractor shall consider using all BMPs listed hereon.							
BMP No.	ВМР	MINIMUM REQUIREMENT	CHECK IF CONTRACT REQUIREMENT	CHECK IF USED	CHECK IF NOT USED	IF NOT USED, STATE REASON		
TC-1	Stabilized Construction Entrance/Exit							
TC-2	Stabilized Construction Roadway							
TC-3	Entrance/Outlet Tire Wash							
SC-7	Street Sweeping and Vacuuming	~						

30.1.3.1 Selected Tracking Control BMPs

INSTRUCTIONS

Describe the locations and scheduled applications for each selected sediment tracking control BMP.

EXAMPLE

SC-7 Street Sweeping and Vacuuming

Sediment sweeping and vacuuming will be provided year-round at the site entrance/exit locations shown on WPCD-2.

REQUIRED TEXT
·
30.1.4 Wind Erosion Controls
INSTRUCTIONS
■ The objective of wind erosion controls is to prevent soil from being transported off-site by wind.
■ Wind erosion controls shall be applied as necessary to prevent nuisance dust as required by the
Standard Specifications, the Special Provisions, BMP WE-1, Wind Erosion Control, and as directed by the Engineer. Soil stabilization BMPs also provide wind erosion control benefits.
■ Remove the "required text" if the project will not create disturbed soil areas.
Remove the last sentence of the "required text" if the project will create soil disturbed areas but soil stabilization BMPs are not required.
REQUIRED TEXT
Wind erosion controls will be applied as necessary to prevent nuisance dust as required by the
Standard Specifications, the Special Provisions, BMP WE-1, Wind Erosion Control, and as directed
by the Engineer. The soil stabilization BMPs selected for the project will also provide wind erosion control benefits.

30.2 Non-Storm Water Management BMPs

INSTRUCTIONS

- Non-storm water discharges which are not authorized under the Caltrans Permit or authorized under a separate NPDES permit are prohibited. Examples of prohibited discharges common to construction activities include:
 - Vehicle and equipment wash water, including concrete washout water
 - Slurries from concrete cutting and coring operations or AC grinding operations
 - Slurries from concrete or mortar mixing operations
 - Blast residue from high-pressure washing of structures or surfaces
 - Wash water from cleaning painting equipment
 - Runoff from dust control applications of water or dust palliatives
 - Sanitary and septic wastes
- List all activities that have the potential to produce non-storm water discharges. (Consider dewatering operations and any construction activity that requires water use.) Discuss planned dewatering operations with the RE to determine possible requirement for permits and/or treatment. Discuss how mobile operations, such as maintenance and fueling for large or stationary equipment, will be addressed.
- Use the following table to select BMPs as necessary to contain, remove, and dispose potential nonstorm water discharges.
- Show BMP locations on the WPCDs.

EXAMPLE

The project will include the following activities that have the potential to generate non-storm water discharges:

- PCC Saw-cutting
- PCC Paving activities and washout of concrete mixing, placing, and finishing equipment
- Mortar mixing associated with sound wall construction.
- Dust control/watering for soil compaction

RE	QU	IRED	TEXT

	NON-STORM WATER MANAGEMENT BMPs						
BMP No.	ВМР	MINIMUM REQUIREMENT	CHECK IF CONTRACT REQUIREMENT	CHECK IF USED	CHECK IF NOT USED	IF NOT USED, STATE REASON	
NS-1	Water Conservation Practices						
NS-2	Dewatering Operations						
NS-3	Paving and Grinding Operations						
NS-4	Temporary Stream Crossing						
NS-5	Clear Water Diversion						
NS-6	Illicit Discharge/Illegal Dumping Reporting	~					
NS-7	Potable Water/Irrigation						
Vehicle Operate	e and Equipment tions						
NS-8	Vehicle and Equipment Cleaning	V					
NS-9	Vehicle and Equipment Fueling	~					
NS-10	Vehicle and Equipment Maintenance	~					

30.2.1 Selected Non-Storm Water Management BMPs

INSTRUCTIONS

Describe the scheduled application of the selected BMPs.

EXAMPLE

The following BMPs will be implemented for PCC Saw-cutting, PCC Paving Activities, and mortar mixing activities. A 3 m by 3 m below-grade concrete washout facility will be constructed and maintained at the location shown on the plan to contain and cure all concrete/mortar slurries and wash waters.

NS-3 Paving and Grinding Operations

WM-8 Concrete Waste Management

The following BMPs will be implemented to reduce/eliminate discharged from dust control activities:

WE-1 Wind Erosion Control

NS-1 Water Conservation Practices

REQUIRED TEXT	

30.3 Waste Management and Materials Pollution Control BMPs

INSTRUCTIONS

- Waste management consists of implementing procedural and structural BMPs for collecting, handling, storing and disposing of wastes generated by a construction project to prevent the release of waste materials into storm water discharges. Wastes are going to be generated during construction; however, the methods in which the wastes are collected, stored, and removed will determine the success of the waste management activities. Construction site wastes can range from residues collected from non-storm water discharges (i.e. paint removal) to general site litter and debris (i.e. empty marker paint cans).
- Material pollution control (materials handling) consist of implementing procedural and structural BMPs for handling, storing and using construction materials to prevent the release of those materials into storm water discharges. The amount and type of construction materials to be utilized at the site will be dependent upon the type of construction and the length of the construction period. The materials may be used continuously, such as fuel for vehicles and equipment, or the materials may be used for a discrete period, such as fertilizer for landscaping.
- Waste management and materials pollution control BMPs must be implemented to minimize storm water contact with construction materials, wastes and service areas, and to prevent materials and wastes from being discharged off-site.
- Review project activities to identify likely construction materials and wastes. Identify materials and wastes with special handling or disposal requirements, such as lead contaminated soils. List anticipated materials and wastes below.

- Based on the listed materials and wastes, use the following materials handling and waste management BMP consideration checklist to select appropriate BMPs.
- Locate storage, waste, and handling locations and facilities on the WPCDs.

EXAMPLE

The following construction materials and wastes, which have the potential to cause storm water pollution, will be generated on-site or brought on-site for immediate use or temporary storage:

- Mortar mix
- Raw landscaping materials and wastes (topsoil, plant materials, herbicides, fertilizer, mulch)
- BMP materials (sandbags, liquid copolymer)
- Treated lumber (materials and wastes)
- Reinforcing bar
- Plated metal fencing materials
- PCC rubble
- Block rubble
- General litter

REQUIRED TEXT

	WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL BMPs						
BMP No.	ВМР	MINIMUM REQUIREMENT	CHECK IF CONTRACT REQUIREMENT	CHECK IF USED	CHECK IF NOT USED	IF NOT USED, STATE REASON	
WM-1	Material Delivery and Storage	V					
WM-2	Material Use	V					
WM-3	Asphalt Concrete Stockpiles						
WM-4	Spill Prevention and Control	V					
WM-5	Solid Waste Management	V					
WM-6	Hazardous Waste Management						
WM-7	Contaminated Soil Management						
WM-8	Concrete Waste Management						
WM-9	Sanitary/Septic Waste Management	V					
WM-10	Liquid Waste Management						

30.3.1 Selected Waste Management and Materials Pollution Control BMPs

INSTRUCTIONS

Describe the scheduled application of the selected BMPs.

EXAMPLE

The BMPs checked above will be implemented on the project. Because of site constraints, most materials and wastes will be immediately used and removed, respectively. BMP materials will be mixed/prepared off-site and only brought on-site by the erosion control contractor for immediate application/deployment. PCC rubble will be loaded directly into trucks for immediate removal. Raw wall construction materials will be stockpiled for use that day and stored on pallets.

REQUIRED TEXT		

30.4 Water Pollution Control Drawings (WPCDs)

INSTRUCTIONS

- The contractor will include water pollution control drawings (WPCDs) in the WPCP to illustrate the locations, applications, and deployment of the BMPs checked in the preceding sections.
- The WPCDs shall include one or more drawings at a scale sufficient to clearly show on-site drainage patterns and the location of erosion and sediment control BMPs. The WPCDs shall be no smaller than the "reduced plans" (approximately 11" x 17") issued by Caltrans. A sample WPCD is included in Appendix A to the "SWPPP and WPCP Preparation Manual", Attachment B. The sample WPCD is shown smaller than actual reduced plans.
- The WPCDs shall include:
 - Detail sheets showing construction details for the BMPs that will be used.
 - Location sheets, usually modified layout, grading, stage construction, and/or drainage sheets, showing the locations of BMPs that will be used. Delineation of BMPs will be in the form of construction notes and/or symbols.
- Include the WPCDs as an attachment to the WPCP.

REQUIRED TEXT

The water pollution control drawings are included as an attachment to this Water Pollution Control Program.

30.5 Construction BMP Maintenance, Inspection, and Repair

INSTRUCTIONS

- A program for the regular inspection, maintenance, and repair of BMPs will be included in the WPCP on the form that follows. The contractor's attention is directed to the Caltrans "Construction Site Best Management Practices Manual" where the working details describe requirements for maintenance and inspection of BMPs.
- Appendix A, Attachment G of this SWPPP and WPCP Preparation Manual, shows a sample Maintenance, Inspection and Repair Program.
- At a minimum, the contractor must inspect the site before and after storm events, and at 24-hour intervals during extended storms. The project Special Provisions may require additional inspections.
- The results of the inspection and assessment shall be recorded on the Construction Site Inspection Checklist included in Appendix A to the "SWPPP and WPCP Preparation Manual", Attachment I.

■ A copy of each completed Construction Site Inspection Checklist shall be provided to the RE and a copy attached to the on-site WPCP. A tracking or follow-up procedure must follow any inspection that identifies deficiencies in BMPs.

REQUIRED TEXT

The inspection, maintenance and repair program is as follows:

	WPCP Inspection, Maintenance, and Repair Program						
ВМР	Inspection Frequency		Maintenance/Repair Measures				
DIVIP	Rainy	Non-Rainy	mannenance/перап measures				

Section 40.0 Amendments

INSTRUCTIONS

- The WPCP shall be amended whenever there is a change in construction or operations that may cause the discharge of significant quantities of pollutants to surface waters, ground waters, municipal storm drain systems, or when deemed necessary by the RE. All WPCP amendments shall be documented in letter format and include revised WPCD sheets, as appropriate. WPCP amendments shall be certified by the contractor and require approval by the RE. Approved amendments shall be attached to the Contractor's on-site WPCP.
- The following items will be included in the amendment, as appropriate:
 - Discuss who requested the amendment.
 - Describe location of proposed change.
 - Describe reason for change.
 - Describe the original BMP proposed, if any.
 - Describe the new BMP proposed.
 - Include any revised WPCDs for detail or location changes.
- The following certification by the contractor and RE approval block will be included for each amendment.

EXAMPLE

- This amendment was requested by the Regional Water Quality Board, Caltrans, or the Contractor.
- The change is to relocate the concrete washout away from the drainage intake at Miller Ave. It is now located on the northeast section of the construction site, see revised map.
- The reason the change is necessary is that water from concrete washout had the potential to enter the nearby drainage inlet.
- See the revised WPCDs.

REQUIRED TEXT

Construction Contractor's Certification of the WPCP Amendment

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, to the best of my knowledge and belief, the information submitted is, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature	Date					
Name and Title	Phone Number					
For Use by C	altrans Only					
RESIDENT ENGINEER'S APPRO	OVAL OF WPCP AMENDMENT					
I, and/or personnel acting under my direction and supervision, have reviewed this WPCP amendment and find that it meets the requirements set forth in the Special Provisions, the Construction Site Best Management Practices Manual, and the Standard Specifications Section 7-1.01G - Water Pollution.						
RE's Signature	Date of WPCP Amendment Approval					
	() -					
RE's Name (printed)	RE's Phone Number					

Appendix A Attachments for use in Preparing a SWPPP

Attachment A

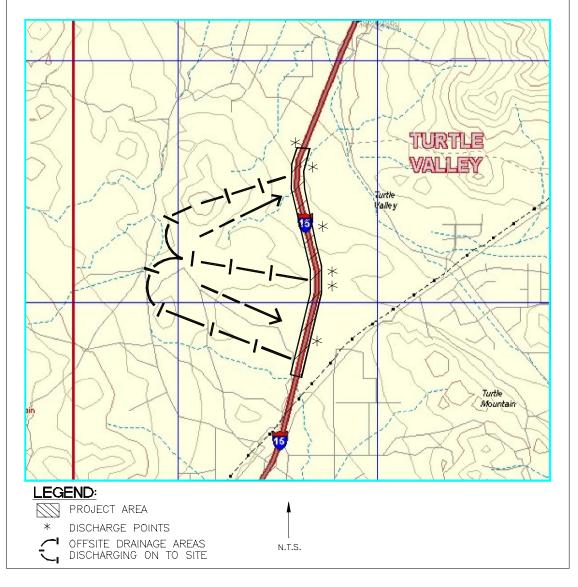
Vicinity Map (Sample)

STORM WATER POLLUTION PREVENTION PLAN

SAMPLE VICINITY MAP

FOR

THE CONSTRUCTION ON STATE HIGHWAY 15
IN SAN BERNARDINO COUNTY NEAR BARSTOW
FROM 2.4km NORTH OF POWERLINE ROAD
OVERCROSSING TO WILDWASH BRIDGE



Attachment B

Water Pollution Control Drawings (WPCDs)

INSTRUCTIONS

• Insert the Water Pollution Control Drawings following this page.

Attachment C

BMP Consideration Checklist

CONSTRUCTION SITE BMPs CONSIDERATION CHECKLIST

The Contractor shall consider using all BMPs listed hereon. Those BMPs which are not included in the SWPPP shall be checked as "Not Used" with a brief statement describing why it is not being used.

	TEMPORARY SOIL STABILIZATION BMPs							
BMP No.	ВМР	MINIMUM REQUIREMENT	CHECK IF CONTRACT REQUIREMENT	CHECK IF USED	CHECK IF NOT USED	IF NOT USED, STATE REASON		
SS-1	Scheduling	✓						
SS-2	Preservation of Existing Vegetation	1						
SS-3	Hydraulic Mulch	✓ ⁽¹⁾						
SS-4	Hydroseeding	✓ ⁽¹⁾						
SS-5	Soil Binders	✓ ⁽¹⁾						
SS-6	Straw Mulch	√ ⁽¹⁾						
SS-7	Geotextiles, Plastic Covers, & Erosion Control Blankets/Mats	✓ ⁽¹⁾						
SS-8	Wood Mulching							
	orary Concentrated Conveyance Controls							
SS-9	Earth Dikes/Drainage Swales & Lined Ditches							
SS-10	Outlet Protection/ Velocity Dissipation Devices							
SS-11	Slope Drains							

⁽¹⁾ The Contractor shall select one of the five measures listed or a combination thereof to achieve and maintain the contract's rainy season disturbed soil area (DSA) requirements.

Not all minimum requirements may be applicable to every project. Applicability to a specific project shall be verified by the Contractor or determined by Caltrans.

CONSTRUCTION SITE BMPs CONSIDERATION CHECKLIST

The Contractor shall consider using all BMPs listed hereon. Those BMPs which are not included in the SWPPP shall be checked as "Not Used" with a brief statement describing why it is not being used.

TEMPORARY SEDIMENT CONTROL BMPs							
BMP No.	ВМР	MINIMUM REQUIREMENT	CHECK IF CONTRACT REQUIREMENT	CHECK IF USED	CHECK IF NOT USED	IF NOT USED, STATE REASON	
SC-1	Silt Fence	✓					
SC-2	Desilting Basin						
SC-3	Sediment Trap						
SC-4	Check Dam						
SC-5	Fiber Rolls						
SC-6	Gravel Bag Berm						
SC-7	Street Sweeping and Vacuuming	1					
SC-8	Sand Bag Barrier						
SC-9	Straw Bale Barrier						
SC-10	Storm Drain Inlet Protection	1					
	WIND EROSION CONTROL BMPs						
WE-1	Wind Erosion Control	1					
	TRACKING CONTROL BMPs						
TC-1	Stabilized Construction Entrance/Exit						
TC-2	Stabilized Construction Roadway						
TC-3	Entrance/Outlet Tire Wash						

⁽²⁾ Not all minimum requirements may be applicable to every project. Applicability to a specific project shall be verified by the contractor or determined by Caltrans.

CONSTRUCTION SITE BMPs CONSIDERATION CHECKLIST

The Contractor shall consider using all BMPs listed hereon. Those BMPs which are not included in the SWPPP shall be checked as "not used" with a brief statement describing why it is not being included.

NON-STORM WATER MANAGEMENT BMPs						
BMP No.	ВМР	MINIMUM REQUIREMENT	CHECK IF CONTRACT REQUIREMENT	CHECK IF USED	CHECK IF NOT USED	IF NOT USED, STATE REASON
NS-1	Water Conservation Practices					
NS-2	Dewatering Operations					
NS-3	Paving and Grinding Operations					
NS-4	Temporary Stream Crossing					
NS-5	Clear Water Diversion					
NS-6	Illicit Connection/Illegal Discharge Detection and Reporting	1				
NS-7	Potable Water/Irrigation					
Vehicle and Equipment Operations						
NS-8	Vehicle and Equipment Cleaning	~				
NS-9	Vehicle and Equipment Fueling	1				
NS-10	Vehicle and Equipment Maintenance	1				

⁽²⁾ Not all minimum requirements may be applicable to every project. Applicability to a specific project shall be verified by the contractor or determined by Caltrans.

CONSTRUCTION SITE BMPs CONSIDERATION CHECKLIST

The Contractor shall consider using all BMPs listed hereon. Those BMPs which are not included in the SWPPP shall be checked as "not used" with a brief statement describing why it is not being used.

WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL BMPs						
BMP No.	ВМР	MINIMUM REQUIREMENT	CHECK IF CONTRACT REQUIREMENT	CHECK IF USED	CHECK IF NOT USED	IF NOT USED, STATE REASON
WM-1	Material Delivery and Storage	1				
WM-2	Material Use	✓				
WM-3	Asphalt Concrete Stockpiles					
WM-4	Spill Prevention and Control	1				
WM-5	Solid Waste Management	1				
WM-6	Hazardous Waste Management					
WM-7	Contaminated Soil Management					
WM-8	Concrete Waste Management					
WM-9	Sanitary/Septic Waste Management	1				
WM-10	Liquid Waste Management					

⁽²⁾ Not all minimum requirements may be applicable to every project. Applicability to a specific project shall be verified by the contractor or determined by Caltrans.

Attachment D

Computation Sheet for Determining Runoff Coefficients

INSTRUCTIONS

- The runoff coefficient ("C" value) is used to estimate the impact on stormwater runoff due to development of a site. The C value is the amount of rainfall that becomes runoff. The less runoff that is absorbed into the ground, the higher the C value. This information may be provided by Caltrans.
- Refer to the Caltrans Highway Design Manual, Topic 819 Estimating Design Discharge, for a more detailed explanation on calculating weighted runoff coefficients for areas containing varying amounts of different cover.
- Refer to Figure 819.2A, "Runoff Coefficients for Undeveloped Areas", and Table 819.2B, "Runoff Coefficients for Developed Areas"

EXAMPLE

Total Site Area = $171,965 \text{ m}^2$ (A)

Existing Site Conditions

Impervious Area¹ = $88,157 \text{ m}^2$ (B)

Impervious Area Runoff Coefficient 2,4 = 0.95 (C)

 $88157 \times 0.95 = 83,749 \text{ m}^2 \text{ (B x C)}$

Pervious Area³ = $83,808 \text{ m}^2$ (D)

Pervious Area Runoff Coefficient⁴ = 0.4 (E)

 $83808 \times 0.4 = 33,523 \text{ m}^2 \text{ (D x E)}$

Sum: 83749 + 33523 = 117,272 (B x C) + (D x E)

Divide: $140738/171965 = 0.68 \frac{(B \times C) + (D \times E)}{(A)}$

Existing Area Runoff Coefficient = 0.68 (F)

Proposed Site Conditions

Impervious Area¹ = $100,036 \text{ m}^2$ (G)

Impervious Area Runoff Coefficient^{2, 4} = 0.95 (H)

 $100036 \times 0.95 = 95,034 \text{ m}^2 \text{ (G x H)}$

Pervious Area³ = $71,929 \text{ m}^2$ (I)

Pervious Area Runoff Coefficient⁴ = 0.4 (J)

 $71929 \times 0.4 = 28,771 \text{ m}^2 \text{ (I x J)}$

Sum: 95034 + 28771 = 123,805 (G x H) + (I x J)

Divide: $123805/171965 = 0.72 \frac{(G \times H) + (I \times J)}{(A)}$

Existing Area Runoff Coefficient = 0.72 (F)

REQUIRED TEXT:

Total Site Area
$$=$$
 (A)

Existing Site Conditions

Impervious Site Area
$$^1 =$$
 (B)

Impervious Site Area Runoff Coefficient
$$^{2,4} =$$
 (C)

Pervious Site Area
3
 = (D)

Pervious Site Area Runoff Coefficient
4
 = (E)

Existing Site Area Runoff Coefficient
$$\frac{(B \times C) + (D \times E)}{(A)} =$$
 (F)

Proposed Site Conditions (after construction)

Impervious Site Area
$$^1 =$$
 (G)

Impervious Site Area Runoff Coefficient
$$^{2,4} =$$
 (H)

Pervious Site Area
3
 = (I)

Pervious Site Area Runoff Coefficient
4
 = (J)

Proposed Site Area Runoff Coefficient
$$\frac{(G \times H) + (I \times J)}{(A)} =$$
 (K)

- 1. Includes paved areas, areas covered by buildings, and other impervious surfaces.
- 2. Use 0.95 unless lower or higher runoff coefficient can be verified.
- 3. Includes areas of vegetation, most unpaved or uncovered soil surfaces, and other pervious areas.
- 4. See the table on the following page for typical C values.

Attachment E

Computational Sheet for Determining Run-on Discharges

INSTRUCTIONS

- *Item A*. The runoff coefficient represents the percent of water, which will run off the ground surface during the storm. Values of the coefficient, "C", can be determined from Figure 819.2A, "Runoff Coefficients for Undeveloped Areas", and Table 819.2B, "Runoff Coefficients for Developed Areas", from Caltrans, Highway Design Manual, Fifth Edition.
- Refer to the Caltrans Highway Design Manual, Topic 819 Estimating Design Discharge, for a more detailed explanation on calculating weighted runoff coefficients for areas containing varying amounts of different cover.
- *Item B*. Rainfall intensity, in millimeters per hour, is the average rainfall intensity for the selected frequency. Refer to the County Flood Control, or U. S. Army Corps of Engineers manuals for rainfall intensity values.
- *Item C*. Drainage area in square kilometers includes impervious and pervious areas and surfaces covered by buildings.
- SWPPP preparer shall provide calculations for offsite run-on if flow quantities are not available via the project design documents (Drainage Report, Hydrology Report, etc.)
- The rational method should not be used for drainage areas greater than 1.3 km² (130 ha). See Caltrans, Highway Design Manual, Fifth Edition, Section 819.2.

Existing Site Conditions

Area Ru	noff Coefficient	=		(A)
Area F	Rainfall Intensity	=	mm/hr	(B)
	Drainage Area	=	km ²	(C)
Site Area Run-on Discharge	0.28x(A)x(B)x (C)	=	m ³ /sec	(D)

Attachment E -Example

Computational Sheet for Determining Run-on Discharges Existing Site Conditions

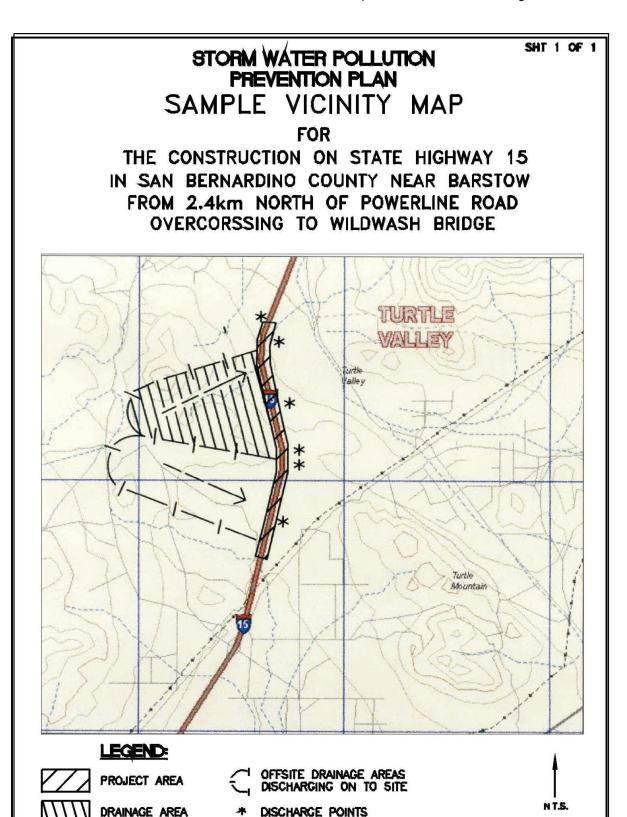
Area Runoff Coefficient¹ =
$$0.32$$
 (A)

Area Rainfall Intensity
$$^2 = 12.7 \text{ mm/hr}$$
 (B)

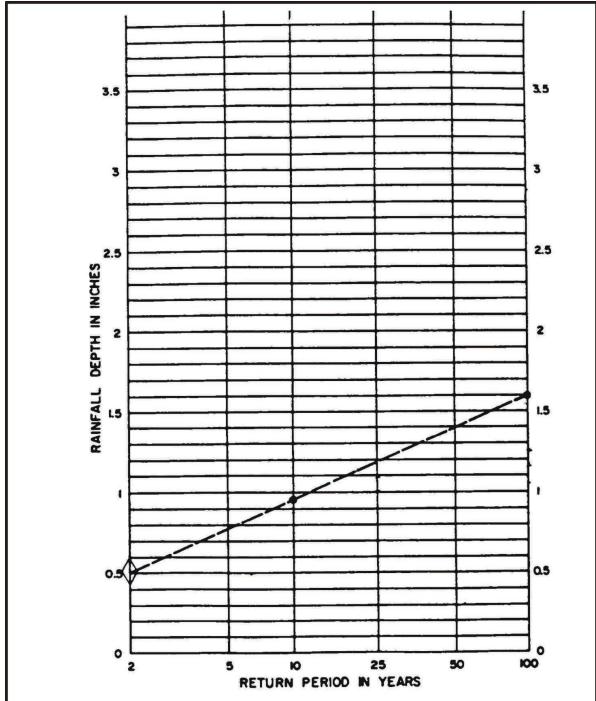
Drainage Area³ =
$$0.71 \text{ km}^2$$
 (C)

Site Area Run-on Discharge
$$0.28x(A)x(B)x(C) = 0.81 \text{ m}^3/\text{sec}$$
 (D)

- 1. The runoff coefficient represents the percent of water, which will run off the ground surface during the storm for the area depicted on page 7. The value for the runoff coefficient, .32, was determined from Figure 819.2A, page 5, based on the site characteristics (terrain, type of soil, vegetation, etc.) for an undeveloped area.
- 2. Rainfall intensity, in millimeters per hour, is the average rainfall intensity for the selected frequency and duration (2 year, 1 hour storm). The Rainfall Depth versus Return Period chart, page 7, from the San Bernardino County Flood Control Hydrology Manual gives a value of 0.5 in/hr (12.7 mm/hr) for the site area.
- 3. Drainage area, in square kilometers, depicted on page 5 is 0.71 km².



Q.\52907\CDM\ VicinityMap(8,5x11),dwg 09/12/00 16;38



NOTE:

FOR INTERMEDIATE RETURN PERIODS PLOT 10-YEAR AND 100-YEAR ONE HOUR VALUES FROM MAPS, THEN CONNECT POINTS AND READ VALUE FOR DESIRED RETURN PERIOD. FOR EXAMPLE GIVEN 10-YEAR ONE HOUR = 0.95" AND 100-YEAR ONE HOUR = 1.60", 2-YEAR ONE HOUR = 0.5".

REFERENCE NOAA ATLAS 2, VOLUME II-CAL., 1973

SAN BERNARDINO COUNTY
HYDROLOGY MANUAL

RAINFALL DEPTH VERSUS
RETURN PERIOD FOR
PARTIAL DURATION SERIES

Attachment F

Notification of Construction (NOC)

INSTRUCTIONS

■ The NOC form shown in the following page is a blank form. The completed Notification of Construction (NOC) will be provided by Caltrans.

NOTIFICATION OF CONSTRUCTION

IN COMPLIANCE WITH CALTRANS STATEWIDE NPDES STORM WATER PERMIT Order No. 99-06 DWQ, NPDES No. CAS000003

. IDENTIFICATI	ON-Attach Vic	inity Map, ½ s	size copy of T	Title Sh	neet					
Project			Check One □First Su		orAmen	dment No	Contract N EA	umber		Date MM/DD/Y
City(if applicable)		County				Tentative Si	tart Date	Tenta	tive End	Date
Route	Post Mile			Kilome	ter Post			Tenta	tive Dat	e SWPPP Availabl
GAT TEODAY	A DEGLOVAL	TILL TEED OF								
CALIFORNI Region 1, North 0		Region 5, Central		VTROL				Пр	oaion 7	Colorado River
Region 1, North C		Sacramento	vaney		Region 6, La				-	Santa Ana
Region 2, San France	-	Fresno			□South Lat				-	Santa Ana San Diego
Region 3, Central		Redding			victorviii				egion 9,	San Diego
-										
I. CALTRANS Jame/Number	DISTRICT				Project Co	ntact				
					-					
Address					Position Ti	tle				
City			Zip		Phone					
					()					
V. CONSTRUC Street Address	TION FIELD	OFFICE- Atta	ach Location	ı Map	Constructi	on Control				
ireet Address					Construction	on Contact				
Physical Location if I	Different than addr	ess above			Position Ti	tle				
City	State		Zip		Phone ()					
Description and Type	e of Work									
Additional related re Describe:	quired approvals:	☐ DTSC Varian	ce 🗌 CWA	404/401	☐ DFG 16	01 🔲 NP	DES/WDRs	☐ Other		
Total Construction A	rea:	Acres	Hectare	es	Total Disturb	ed Area:	A	cres		Hectares
Receiving Water Nar	ne:				Project In Or	Adjacent to I	Receiving Wate	r?:	☐ Ye	s 🔲 No
Project Discharges to	o?: 🗌 Groundwa	ter Infiltration	Basin Location	on:		□Municipe	al/Other Systen	ı Name:		
I. CERTIFICA	TION									
certify under penalt hat qualified persons persons directly responsers that there are s	y of law that this do nel properly gather onsible for gatherin	and evaluate the int g the information, t	formation submi the information s	itted. Bas submitted	sed on my inqu I is true, accura	iry of the pers te, and compl	son or persons ete to the best	who mana of my kno	ge the sy wledge a	stem, or those and belief. I am
Signature:					Dat	e:				
Print/Type Name:					Title	e:				

Attachment G

Program for Maintenance, Inspection, and Repair of Construction Site BMPs

INSTRUCTIONS

- Use this form as an outline for the maintenance, inspection and repair program described in SWPPP Section 500.5.
- Certain projects may require increased inspection frequencies. Refer to the project Special Provisions for additional requirements.

	The contractor shall use the following guidelines for maintenance, inspection, and repair of BMPs identified in the SWPPP/WPCP								
	BEST MANAGEMENT PRACTICES (BMPs)	INSPECTION FREQUENCY (all controls)		MAINTENANCE/REPAIR PROGRAM					
		TEMPORARY SOIL STABILIZATI	ON I	BMPs					
SS-2	Preservation of Existing Vegetation	Bi-weekly		Inspect protective fencing and repair or replace as necessary					
			-	Repair or replace damaged vegetation per SS-1 working detail					
			•	Repair damaged roots or compacted soils in the root zone					
SS-3	Hydraulic Mulch	Bi-weekly	•	Maintain continuous mulch cover over area to be protected. Re-spray hydraulic					
SS-7	Plastic Covers	Prior to forecast storm		mulch as necessary.					
		After a rain event that causes runoff from the construction site	•	As soon as weather and soil conditions permit, repair any slope damage and respray damaged or exposed areas					
		At 24-hour intervals during extended rain events	•	Replace and dispose torn or missing sections of plastic covers. Replace or supplement anchors as necessary to keep covers in place.					

	The contractor shall u	se the following guidelines for ma of BMPs identified in the SWPP	
	BEST MANAGEMENT PRACTICES (BMPs)	INSPECTION FREQUENCY (all controls)	MAINTENANCE/REPAIR PROGRAM
	· ·	TEMPORARY SEDIMENT CONTR	OL BMPs
SC-1 SC-4	Silt Fence Check Dam	Bi-weekly Prior to forecast storm	 Remove, dispose, and replace damaged, deteriorated, or otherwise unsuitable BMPs
SC-8	ğ.	After a rain event that causes runoff from the construction site	Repair any slope damage as soon as weather conditions permit.
SC-10	Storm Drain Inlet		Replace torn sand bags as required.
	Protection	At 24-hour intervals during extended rain events	Replace torn sections of silt fences. Re- key bottom of fences as needed.
			■ Remove retained sediments before they reach 1/3 of the barrier height or ½ of the sediment holding capacity
			 Clean and dispose of accumulated sediment deposited in sediment traps around drainage inlets; re-secure silt fence as needed
			 Remove BMPs when no longer needed, as directed by the Engineer. Repair slopes/surfaces damaged by BMP removal
SC-7	Street Sweeping and	Daily	■ Inspect site access points daily
	Vacuuming		■ Sweep tracked sediment
SC-2	Desilting Basins	Bi-weekly	Remove sediment as necessary.
		Prior to forecast storm	■ Pump and discharge accumulated water.
		After a rain event that causes runoff from the construction site	 Check outlet structure and spillway for any damage or obstructions. Repair damage and remove obstructions as needed.
		At 24-hour intervals during extended rain events	 Check outlet area for erosion and stabilize, if required.
			Remove sediments when storage zone is one-third full.
			Examine basin banks for seepage and structural soundness.
		WIND EROSION CONTROL B	BMPs
WE-1	Wind Erosion Control	Daily	 Maintain water trucks and water distribution equipment in good order and fix leaks immediately

	The contractor shall u	use the following guidelines for ma	aintenance, inspection, and repair
		of BMPs identified in the SWPI	PMPCP
BEST MANAGEMENT		INSPECTION FREQUENCY	MAINTENANCE/REPAIR PROGRAM
	PRACTICES (BMPs)	(all controls)	
		TRACKING CONTROL BI	
TC-1	Stabilized Construction	Weekly	Replace gravel as necessary.
	Entrance/Exit	Prior to forecast storm	Remove excessive soil accumulation.
		After a rain event that causes runoff from the construction site At 24-hour intervals during extended rain events	Sweep surrounding areas.
		NON-STORM WATER MANAGEM	FNT BMPs
NS-6	Illicit Connection/Illegal Discharge Detection and Reporting	Weekly	Inspect site during project execution for evidence of illicit discharges or illegal dumping.
NS-8	Vehicle and Equipment Cleaning Vehicle and Equipment		 Observe site perimeter for evidence or potential of illicitly discharged or illegally dumped material which may enter the job site.
	Fueling Vehicle and Equipment		 Notify the Resident Engineer of any illicit discharges or illegal dumping incidents at the time of discovery.
	Maintenance		 Remove, dispose and replace damaged, deteriorated, or otherwise unsuitable BMPs
			Remove vehicles and/or equipment that leak.
			 Replace drip pans or absorbent materials as needed. Re-stock spill materials.
		$\Lambda V $	■ Remove BMPs when no longer needed, as directed by the Engineer. Repair slopes/surfaces damaged by BMP removal

	The contractor shall use the following guidelines for maintenance, inspection, and repair of BMPs identified in the SWPPP/WPCP									
_	BEST MANAGEMENT PRACTICES (BMPs)	INSPECTION FREQUENCY (all controls)	MAINTENANCE/REPAIR PROGRAM							
	WASTE MANA	AGEMENT AND MATERIALS POLL	UTION CONTROL BMPs							
	Material Delivery and Storage Material Use	Weekly Prior to forecast storm	 Keep storage areas clean, well organized, and equipped with ample clean-up supplies as appropriate for the materials stored 							
	Spill Prevention and Control Solid Waste Management	After a rain event that causes runoff from the construction site At 24-hour intervals during extended rain events	 Repair or replace perimeter controls, containment structures, covers and liners as needed to maintain proper function and protection 							
	Sanitary/Septic Waste Management		 Properly remove and dispose accumulated rainwater from containment facilities 							
			 Cover any stockpiles with appropriate mats or covers. 							
			 Maintain waste fluid containers in leak proof condition. Repair or replace dumpsters that leak 							
			 Provide timely service and removal to prevent dumpsters and sanitary facilities from overflowing. 							
			 Schedule Refuse Contractor to pick up waste containers weekly. 							
WM-8	Concrete Waste Management	Weekly	 Remove accumulated debris from concrete washouts. Replace lining and sand bags as necessary 							



Attachment H

Storm Water Quality Construction Site Inspection Checklist

INSTRUCTIONS

- Use this form for inspecting BMPs as described in SWPPP Section 500.5.
- This inspection form shall be completed and signed by the Contractor's Water Pollution Control Manager (WPCM).
- The Conceptual SWPPP (CSWPPP) or the Special Provisions may require the Contractor to use a different inspection form
- The weather information shall be the best estimate of beginning of the storm event, duration of the event, time elapsed since the last storm, and approximate amount of rainfall.
- List observations of all BMPs: temporary soil stabilization (erosion control), temporary sediment controls, wind erosion controls, tracking controls, non-storm water controls and waste management and materials pollution controls.
- Evaluate BMPs for adequacy and proper implementation and whether additional BMPs are required in accordance with the terms of the Permits.
- Verify implementation of non-storm water discharge BMPs and evaluate their effectiveness.
- One time discharges of non-storm water shall be inspected when such discharges occur.
- Describe any inadequate BMPs.
- Note the corrective actions required, including any changes to the SWPPP, and implementation dates.
- If you answer "No" to any of the questions, describe the corrective action(s) to be taken and when the corrective action(s) are to be completed. Should you need more space to describe corrective actions, identify your response numerically and use additional sheets as necessary.

	GENE	RAL INFOR	MAT	ΓΙΟΝ			
Project Name							
Caltrans Contract N°							
Contractor							
Inspector's Name							
Inspector's Title							
Signature							
Date of Inspection							
Inspection Type	☐ Prior to forecast rain					After a rain event	
(Check Applicable)	Prior to forecast rain 24-hr intervals during extended Rainy Storm Start Date & Time: Time elapsed since last storm (Circle Applicable Units) PROJECT AREA STURBED SOIL AREA (DSA) SIZE LEST Hectory Hectory OTHER REQUEST AREA STURBED SOIL AREA (DSA) SIZE LEST HECTORY OTHER REQUEST AREA STURBED SOIL AREA (DSA) SIZE LEST HECTORY OTHER REQUEST AREA STURBED SOIL AREA (DSA) SIZE LEST HECTORY OTHER REQUEST AREA STURBED SOIL AREA (DSA) SIZE LEST HECTORY OTHER REQUEST AREA STURBED SOIL AREA (DSA) SIZE LEST HECTORY OTHER REQUEST AREA STURBED SOIL AREA (DSA) SIZE LEST AREA STURBED SOIL AREA (DSA)	xtended rain				Other	
Season (Check Applicable)	☐ Rainy					Non-Rainy	
	Storm Start Date & Time:				Sto	rm Duration (hrs):	
Sloiiii Dala	Time elapsed since last storm (Circle Applicable Units) Min. Hr.			ys	App Am		
					_		
DIS	TURBED SOIL AREA (DSA)	SIZE LIMIT	ſS F	ROM	1 SF	PECIAL PROVISIO	DNS
Total Project Area		Hectares	3		-		Acres
Rainy Season DSA	Limit	Hectares	6		_		Acres
Field Estimate of Ac	tive DSAs	Hectares	; 				Acres
	OTHE	R REQUIRE	ME	NTS			
	Requirement		Yes	No I	N/A	Correctiv	ve Action
Preservation of Exis							
Is temporary fencing where no constructio		in areas					_
Location:					ļ	İ	

Location: Location:

OTHER REQUIRE	ME	NTS	;	
Requirement	Yes	No	N/A	Corrective Action
Location:				
Temporary Soil Stabilization				
Does the applied temporary soil stabilization provide 100% coverage for the required areas?				
Are any non-vegetated areas that may require temporary soil stabilization?				
Is the area where temporary soil stabilization required free from visible erosion?				
Location:				
Temporary Linear Sediment Barriers				
Are temporary linear sediment barriers properly installed in accordance with the details, functional and maintained?				
Are temporary linear sediment barriers free of accumulated litter?				
Is the built-up sediment less than 1/3 the height of the barrier?				
Are cross barriers installed where necessary and properly spaced?				
Location:				
Storm Drain Inlet Protection				
Are storm drain inlets internal to the project properly protected with either Type 1, 2 or 3 inlet protection?				
Are storm drain inlet protection devices in working order and being properly maintained?				
Location:				
Desilting Basins		L		
Are basins maintained to provide the required retention/detention?				
Are basin controls (inlets, outlets, diversions, weirs, spillways, and racks) in working order?				
Location:				
Location:				
Location:				

OTHER REQUIRE	MEI	NTS	3	
Requirement	Yes	No	N/A	Corrective Action
Location:				
Stockpiles				
Are all locations of temporary stockpiles, including soil, hazardous waste, and construction materials in approved areas?				
Are stockpiles protected from run-on, run-off from adjacent areas and from winds?				
Are stockpiles located at least 15 m from concentrated flows, downstream drainage courses and storm drain inlets?				
Are required covers and/or perimeter controls in place?				
Location:				
Concentrated Flows				
Are concentrated flow paths free of visible erosion?				
Location:				
Tracking Control				
Are points of ingress/egress to public/private roads inspected and swept and vacuumed daily?				
Are all paved areas free of visible sediment tracking or other particulate matter?				
Location:				
Wind Erosion Control				
Is dust control implemented in conformance with Section 10 of the Standard Specifications?				
Location:				
Dewatering Operations				
Is dewatering handled in conformance with the dewatering permit issued by the RWQCB?				
Is required treatment provided for dewatering effluent?				
Location:				

OTHER REQUIRE	MEI	NTS		
Requirement	Yes	No	N/A	Corrective Action
Location:				
Location:				
Location:				
Vehicle & Equipment Fueling, Cleaning, and Maintenance				
Are vehicle and equipment fueling, cleaning and maintenance areas reasonably clean and free of spills, leaks, or any other deleterious material?				
Are vehicle and equipment fueling, cleaning and maintenance activities performed on an impermeable surface in dedicated areas?				
If no, are drip pans used?				
Are dedicated fueling, cleaning, and maintenance areas located at least 15 m away from downstream drainage facilities and water courses and protected from run-on and runoff? Is wash water contained for infiltration/ evaporation and disposed				
of outside the highway right of way? Is on-site cleaning limited to washing with water (no soap, soaps				
substitutes, solvents, or steam)?				
On each day of use, are vehicles and equipment inspected for leaks and if necessary, repaired?				
Location:				
Waste Management & Materials Pollution Control				
Are material storage areas and washout areas protected from run-on and runoff, and located at least 15 m from concentrated flows and downstream drainage facilities?				
Are all material handling and storage areas clean; organized; free of spills, leaks, or any other deleterious material; and stocked with appropriate clean-up supplies?				
Are liquid materials, hazardous materials, and hazardous wastes stored in temporary containment facilities?				
Are bagged and boxed materials stored on pallets?				
Are hazardous materials and wastes stored in appropriate, labeled containers?				
Are proper storage, clean-up, and spill-reporting procedures for hazardous materials and wastes posted in open, conspicuous and accessible locations adjacent to storage areas?				
Are temporary containment facilities free of spills and rainwater?				
Are temporary containment facilities and bagged/boxed materials covered?				
Are temporary concrete washout facilities designated and being used?				
Are temporary concrete washout facilities functional for receiving and containing concrete waste and are concrete residues prevented from entering the drainage system?				
Do temporary concrete washout facilities provide sufficient volume and freeboard for planned concrete operations?				

OTHER REQUIRE	MEI	NTS	,	
Requirement	Yes	No	N/A	Corrective Action
Are concrete wastes, including residues from cutting and grinding, contained and disposed of off-site or in concrete washout facilities?				
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?				
Is the site free of litter?				
Are trash receptacles provided in the Contractor's yard, field trailer areas, and at locations where workers congregate for lunch and break periods?				
Is litter from work areas within the construction limits of the project site collected and placed in watertight dumpsters?				
Are waste management receptacles free of leaks?				
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?				
Are waste management receptacles filled at or beyond capacity?				
Location:				
Temporary Water Body Crossing or Encroachment				
Are temporary water body crossings and encroachments constructed as shown on the plans or as approved by the engineer? Does the project conform to the requirements of the 404 permit and/or 1601agreement?				
Location:				
Illicit Connection/Illegal Discharge Detection and Reporting				
Is there any evidence of illicit discharges or illegal dumping on the project site?				
If yes, has the Engineer been notified?				
Location:				
Discharge Points				
Are discharge points and discharge flows free from noticeable pollutants?				
Are discharge points free of any significant erosion or sediment transport?				
Location:				

OTHER REQUIRE	ME	NTS	;	
Requirement	Yes	No	N/A	Corrective Action
Location:				
Location:				
Location:				
WPCP/SWPPP Update				
Does the WPCP/SWPPP, Project Schedule/Water Pollution Control Schedule and WPCDs adequately reflect the current site conditions and contractor operations? Are all BMPs shown on the WPCDs installed in the proper location(s) and according to the details for the plan?				
Location:				
General				
Are there any other potential water pollution control concerns at the site?				
Location:				

Attachment I

Trained Contractor Personnel Log

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	V.)	, ,,		/ (,	LU.	,	/ 1		•

■ Use this sheet to record individuals attending formal training programs specified in section 500.7 of the SWPPP. This form may also be used to record informal tailgate on-site meetings on storm water management.

Storm Water Management Training Log

Project Name:						
Storm Water Management Topic: (check as	s appropriate)					
☐ Temporary Soil Stabilization ☐	☐ Temporary Sediment Control					
☐ Wind Erosion Control	☐ Tracking Control					
☐ Non-storm water management ☐	☐ Waste Management and Material	s Pollution Control				
Specific Training Objective:						
Location:	Date:					
Instructor:	Telephone:					
Attendee Roster (attach additional forms if necessary)						
Name	Name Company Phone					

Name	Company	Phone
COMMENTS:		

Attachment J

Subcontractor Notification Letter (Sample) and Notification Log

INSTRUCTIONS

• Use this sample to prepare the subcontractor letter and log required in Section 500.8 of the SWPPP.

SWPPP Notification

ABC Construction Inc, 123 Sunset Blvd., Suite 456 Hollywood, CA 90000

Dear Sir/Madam,

Please be advised that the California State Water Resources Control Board has adopted the NPDES Statewide Storm Water Permit (Permit) to the State of California, Department of Transportation (Caltrans) in 1999 (CAS000003, Order No. 99-06-DWQ); and the General Permit (General Permit) for Storm Water Discharges Associated with Construction Activity (CAS000002, Order No. 99-08-DWQ). The goal of these permits is prevent the discharge of pollutants associated with construction activity from entering the storm drain system, ground and surface waters.

[Contractor] has developed a Storm Water Pollution Prevention Plan (SWPPP) in order to implement the requirements of the Permits.

As a subcontractor, you are required to comply with the SWPPP and the Permits for any work that you perform on site. Any person or group who violates any condition of the Permits may be subject to substantial penalties in accordance with state and federal law. You are encouraged to advise each of your employees working on this project of the requirements of the SWPPP and the Permits. A copy of the Permits and the SWPPP are available for your review at the construction office. Please contact me if you have further questions.

Sincerely,

John Doe Project Superintendent

SUBCONTRACTOR NOTIFICATION LOG

Project Name:	
Caltrans Contract Number:	

SUBCONTRACTOR COMPANY NAME	CONTACT NAME	ADDRESS	PHONE NUMBER	PAGER/ FIELD PHONE	DATE NOTIFICATION LETTER SENT	TYPE OF WORK

USE ADDITIONAL PAGES AS NECESSARY

Attachment K

Notice of Discharge, Written Notice, or Order

INSTRUCTIONS

■ This form will used to report instances of discharges. The completed form will be submitted to the Resident Engineer within 7 days of the assessment of discharge, written notice or orders from a regulatory agency.

Γο: Name of Caltrans Resider	Date: <u>Insert Date</u>						
Subject: Notice of Discharge							
Project Name:	Insert Project Name						
Troject Name.	msert i roject ivanic						
Caltrans Contract Number:	contract number						

In accordance with the Caltrans NPDES Statewide Permit for Storm Water Discharges Associated with Construction Activity, the following instance of discharge is noted:

Date, time, and location of discharge

Insert description and date of event

Nature of the operation that caused the discharge

insert description of operation

Initial assessment of any impact cause by the discharge

insert assessment

Existing BMP(s) in place prior to discharge event

list BMPs in place

Date of deployment and type of BMPs deployed after the discharge.

BMPs deployed after the discharge (with dates)

Steps taken or planned to reduce, eliminate and/or prevent recurrence of the discharge

insert steps taken to prevent recurrence

Implementation and maintenance schedule for any affected BMPs

insert implementation and maintenance schedule

If further information or a modification to below.	o the above schedule is required, notify the contact person
Name of Contact Person	Title
Company	Telephone Number
Signature	Date

Attachment L

Storm Water Pollution Prevention Plan (SWPPP) and Monitoring Program Checklist

FOR CALTRANS CONSTRUCTION ACTIVITIES

INSTRUCTIONS

- This form provides a checklist of all items that shall be included in the SWPPP.
- The checklist shall be completed by the contractor to ensure that all required elements of the SWPPP have been addressed.
- The completed SWPPP Checklist shall be included as Appendix L of the final SWPPP.

CONSTRUCTION PROJECT:	
CONTRACTOR:	
CONTRACT NO:	

SECTION A: STORM WATER POLLUTION PREVENTION PLAN (SWPPP)				
CHECK IF ADDRESSED N/A IF NOT APPLICABLE	SWPPP Section	ITEM	GENERAL PERMIT REF.	COMMENTS
	100	SWPPP Certification and Approval	C.10	
	100.1	SWPPP Certification	C.10	
	100.2	SWPPP Approval	C.10	
	200	SWPPP Amendments	A.4.a, A.16	
	200.1	Amendment number and date entered into SWPPP – Amendment Log	A.4.a, A.16	
	200.2	Amendment Certification and Approval	A.4.a, A.16	
	300	Introduction/Project Description		
	300.1	Project Description and Location (narrative)	A.5.a.1	
	300.2	Unique Site Features (narrative)	A.5.a.1	

CHECK IF ADDRESSED N/A IF NOT APPLICABLE	SWPPP Section	ITEM	GENERAL PERMIT REF.	COMMENTS
	300.4	Project Schedule/Water Pollution Control Schedule (narrative or graphical)	A.5.c.5	
	400	References	A.14	
	500.2	Vicinity Map (narrative or graphic)	A.5.a.1	
	500.2	Site perimeter	A.5.a.1	
	500.2	Geographic Features	A.5.a.1	
	500.2	General topography	A.5.a.1	
	500.4	Water Pollution Control Drawings (WPCDs) (graphic or narrative)	A.5.a.2	
	500.4	Site perimeter	A.5.a.2	
	500.4	Existing and proposed buildings, lots, and roadways	A.5.a.2	
	500.4	Storm water collection and discharge points	A.5.a.2	
	500.4	General topography before and after construction	A.5.a.2	
	500.4	Anticipated discharge location(s)	A.5.a.2	
	500.4	Drainage patterns including the entire relevant drainage areas	A.5.a.2	
	500.4	Temporary on-site drainage(s)	A.5.a.2	
	500.3	Pollutant Source and BMP Identification (narrate/ or indicate on site map)	A.5.b	
		Drainage	A.5.b.1	
	500.4	Drainage patterns after major grading	A.5.b.1	
	500.4	Slopes after major grading	A.5.b.1	
	Attach. E	Calculations for storm water run-on	A.5.b.1	
	500.4	BMPs that divert off-site drainage from passing through site	A.5.b.1	
	500.4	Storm Water Inlets	A.5.b.2	
	500.4	Drainage patterns to storm water inlets or receiving water	A.5.b.2	
	500.4	BMPs that protect storm water inlets or receiving water	A.5.b.2	
		Site History (narrative; if possible, indicate location(s) on the Water Pollution Control Drawings)	A.5.b	
	500.3.3	Nature of fill material and data describing the soil. Description of toxic materials treated, stored, disposed, spilled or leaked on site	A.5.b.3	
	500.3.8 & 500.3.9	BMPs that minimize contact of contaminants with storm water	A.5.b.3	
		Location of Areas Designated for:	A.5.b.4	
	500.3.8 & 500.4	Vehicle storage & service	A.5.b.4	
	500.3.8 & 500.4	Equipment storage, cleaning, maintenance	A.5.b.4	

CHECK IF ADDRESSED N/A IF NOT APPLICABLE	SWPPP Section	ITEM	GENERAL PERMIT REF.	COMMENTS
	500.3.9 & 500.4	Soil or waste storage	A.5.b.4	
	500.3.9 & 500.4	Construction material loading, unloading, storage and access	A.5.b.4	
	500.3.8 & 500.3.9	Areas outside of Owners right-of-way (yards, borrow areas, etc.)		
	000.0.0	BMP Locations or Descriptions for:	A.5.b.5	
	500.3.9 & 500.4	Waste handling and disposal areas	A.5.b.5	
	500.3.9 & 500.4	On-site storage and disposal of construction materials and waste	A.5.b.5	
	500.3.8, 500.3.9 & 500.4	Minimum exposure of storm water to construction materials, equipment, vehicles, waste	A.5.b.5	
	500.6	Post Construction BMPs	A.5.b.6	
	500.6.1	Listing or Description of Post-construction BMPs	A.5.b.6	
	500.4	Location of post-construction BMPs	A.5.b.6	
	500.6.2	Parties responsible for long-term maintenance	A.5.b.6	
		Additional Information	A.5.c	
	500.3.1	Description of other pollutant sources and BMPs	A.5.c.1	
	500.3.2	Pre-construction control practices	A.5.c.1	
	500.3.1	Inventory of materials and activities that may pollute storm water	A.5.c.2	
	500.3.8 & 500.3.9	BMPs to reduce/eliminate potential pollutants listed in the inventory	A.5.c.2	
	300.4	Runoff coefficient (before & after)	A.5.c.3	
	300.4	Percent impervious (before & after)	A.5.c.3	
	Attach. F	Copy of the NOC	A.5.c.4	
	300.3	Construction activity schedule	A.5.c.5	
	300.5	Contact information	A.5.c.6	
	500.4.1	SOIL STABILIZATION (EROSION CONTROL)	A.6	
		The SWPPP shall include:	A.6.a-c	
	500.4	Areas of vegetation on site	A.6.a.1	
	500.4	Areas of soil disturbance that will be stabilized during rainy season	A.6.a.2	
	500.4	Areas of soil disturbance which will be exposed during any part of the rainy season	A.6.a.3	
	300.4	Implementation schedule for erosion control measures	A.6.a.4	
	500.3.4	BMPs for erosion control	A.6.b	
	500.3.7	BMPs to control wind erosion	A.6.c	

SEC	SECTION A: STORM WATER POLLUTION PREVENTION PLAN (SWPPP)				
CHECK IF ADDRESSED N/A IF NOT APPLICABLE	SWPPP Section	ITEM	GENERAL PERMIT REF.	COMMENTS	
	500.3.5	SEDIMENT CONTROL	A.8		
	500.3.5 & 500.4	Description/Illustration of BMPs to prevent increase of sediment load in discharge	A.8		
	300.4, 500.3.5	Implementation schedule for sediment control measures	A.8		
	500.3.6	BMPs to control sediment tracking	A.8		
	500.3.8 & 500.3.9	NON-STORM WATER MANAGEMENT	A.9		
	500.3.8 & 500.3.9	Description of non-storm water discharges to receiving waters	A.9		
	500.3.8 & 500.3.9	Locations of discharges	A.9		
	500.3.8 & 500.3.9	Description of BMPs	A.9		
	300.5	Name and phone number of person responsible for non-storm water management	A.9		
	500.6	POST-CONSTRUCTION	A.10		
	500.6.1	Description of post-construction BMPs	A.10		
	500.6.2	Operation/Maintenance of BMPs after project completion (including short-term funding, long-term funding and responsible party)	A.10		
	500.5	MAINTENANCE, INSPECTIONS, AND REPAIR	A.11		
	300.5, 600.1	Name and phone number of person(s) responsible for inspections	A.11	-	
	600.1, Attach. H	Complete inspection checklist: date, weather, inadequate BMPs, visual observations of BMPs, corrective action, inspector's name, title, signature	A.11.a-f		
		OTHER REQUIREMENTS	A.12-16		
	500.7	Documentation of all training	A.12		
	500.8	List of Contractors/Subcontractors	A.13		

	SECTION B: MONITORING AND REPORTING REQUIREMENTS					
CHECK IF ADDRESSED N/A IF NOT APPLICABLE	SWPPP Section	ITEM	GENERAL PERMIT REF.	COMMENTS		
	600.1	Description of Site Inspection Plans	B.3			
	100.3	Compliance certification (annually 7/1)	B.4			
	600.2	Discharge reporting	B.5			
	600.3	Keep records of all inspections, compliance certifications, and noncompliance reports on site for a period of at least three years	B.6			

SECTION C: STANDARD PROVISIONS FOR CONSTRUCTION ACTIVITIES				
CHECK IF ADDRESSED N/A IF NOT APPLICABLE	SWPPP Section	ITEM	GENERAL PERMIT REF.	COMMENTS
	100.1	Signed SWPPP Certification	C.9,10	

CALTRANS NPDES PERMIT No. CAS000003 REQUIREMENTS				
CHECK IF ADDRESSED N/A IF NOT APPLICABLE	SWPPP Section	ITEM	CALTRANS PERMIT REF.	COMMENTS
	500.3 & 500.4	SWPPP references and/or includes permanent and temporary BMPs	H.1.b	
	100 – 600	SWPPP contains all elements required in the State General Permit. CAS000002	H.2.b	
	100.1 & Attach. F	SWPPP limits application, generation, & migration of toxic substances	H.6	
	500.3.4 & 500.3.5	Implementation of adequate Erosion and Sediment Controls after construction	H.7	
	100.1 & Attach. F	Copy of the Notification of Construction (NOC)	H.8.a	
	500.3.8	SWPPP contains BMPs for mobile operations (material production or recycling operations) including AC recycling, PCC Recycling, Concrete Mixing, Crushing, & storage of materials that are established by the contractor on the construction site or on other property specifically arranged for by Caltrans.	H.8.b	
	500.4	SWPPP applies to all areas that are directly related to construction including but not limited to staging & storage yards, material borrow areas, or access roads whether or not they reside in CT R/W.	H.8.b	
	500.3.8	The SWPPP contains RWQCB WDR requirements for projects that reuse Aerially Deposited Lead. (Applicable only for projects that reuse ADL soils.)	H.9	

Attachment M

Annual Certification of Compliance Form

INSTRUCTIONS

- By June 15th of each year, the Contractor shall complete and submit this form to the Resident Engineer for approval as required in Section 100.3 of the SWPPP. Annual certification of compliance is based on the site inspections required in the SWPPP.
- Completed and signed Annual Certifications and Approvals shall be included in Section 100.3 of the SWPPP following the required text of the section.
- This Annual Certification of Compliance form does not need to be completed at the initial approval, but it shall be submitted during the first year of the initial SWPPP approval.

Annual Certification of Compliance for the Construction Contractor

Project Name:		
Caltrans Contract Number:		
Contractor Company Name:		
Contractor Address:		
Construction Start Date:	Completion Date:	
Description of Work:	description of work	
Work Now in Progress:	work in progress	

Attachment M
Annual Certification of Compliance

Work Planned for Next 12 Months:	work planned	
direction or supervision in acco	ordance with a system designed	chments were prepared under my to assure that qualified personnel on my inquiry of the person or
persons who manage the system to the best of my knowledge and	or those persons directly respons belief, the information submitted ficant penalties for submitting	ible for gathering the information, is, true, accurate, and complete. I false information, including the
Contractor Signature:		Date:

Approval by the Resident Engineer for the Annual Certification of Compliance

Resident Engineer's Findings

I, and/or personnel ac work described above	ting under my direction and supervision, and find as follows:	, have inspected the project site and the
1. □ YES □ NO	Storm water pollution control measures are the SWPPP approved for the project.	being implemented in accordance with
2. □ YES □ NO	The project site and activities thereon are in NPDES Permit No. CAS000003, the NPDI local NPDES permits, which ever is application.	ES General Permit No. CAS000002, or
When both 1 and 2 above below.	ve are checked "yes", the resident engineer i	must complete the annual certification
If either 1 or 2 above ar	e checked "no", the resident engineer must:	
Document followNotify the contract	on-compliance within 30 days of identification up actions below; etor; and actions in accordance with the contract.	on of the noncompliance;
Resident Engine	er's Follow up Actions:	
direction or supervision properly gather and e persons who manage the information submi am aware that there a	y of law that this document and all attack on in accordance with a system designed evaluate the information submitted. Base the system, or those persons directly res itted is to the best of my knowledge and b are significant penalties for submitting fa imprisonment for knowing violations.	l to assure that qualified personnel ed on my inquiry of the person or ponsible for gathering the information belief, true, accurate, and complete. I
Resident Engi	neer's Name and Signature	Date

Attachment N

Other Plans and Permits

INSTRUCTIONS

- Include in this attachment a copy of the Caltrans Statewide Permit CAS000003.
- Include in this attachment a copy of the General Construction Permit CAS000002
- Also include copies of other local, state, and federal plans and permits page. List of other plans and permits shall be included in Section 500.9 of the SWPPP.

Attachment O

Notice of Completion of Construction

INSTRUCTIONS

■ The Notice of Completion of Construction will be inserted by Caltrans at the end of the project.

Appendix B Abbreviations, Acronyms, and Definition of Terms

Abbreviations

Acronyms

cfs cubic feet per second CFR Code of Federal Cy cubic yard(s) CSWPPP Conceptual Structure feet Pollution Present Gal gallon(s) CWA Clean Water Again gallons per minute DSA Disturbed Soit has hectare(s) EPA Environmental Cycles (Code of Federal Cycles) EPA Environmental Cycles (Code of Federal Cycles) EPA Environmental Cycles (Code of Federal Cycles) EPA Environmental Cycles (Cycles) EPA Environmental Cycles (Cycles) EPA (Cycles)	vention Plan	
ft feet gal gallon(s) gpm gallons per minute Pollution Previous CWA Clean Water A DSA Disturbed Soi	vention Plan	
gal gallon(s) gpm gallons per minute CWA Clean Water A DSA Disturbed Soi EPA Environments		
gan ganon(s) gpm gallons per minute DSA Disturbed Soi EPA Environments	Act	
gpm gallons per minute EPA Environments		
ha hectare(s) EPA Environmenta	il Area	
Agency (US I		
hr hour(s) NPDES National Polls	utant Discharge	
in inch(es) Elimination S	Elimination System	
kg kilogram(s) NOC Notification of	of Construction	
l liter(s) PCC Portland Cem	ent Concrete	
lbs pound(s) RE Resident Eng	ineer	
lf linear feet RWQCB California Re	gional Water	
m meter(s) Quality Contr	ol Board	
m ² square meter(s) SWPPP Storm Water		
m ³ cubic meter(s) Prevention Pl		
m ³ /s cubic meters per second SWRCB California Star Resources Co		
mm millimeter(s) US EPA United States	Environmental	
mph miles per hour Protection Ag	gency	
psi pounds per square inch WDR Waste Discha	arge Requirement	
s second(s) WPCM Water Pollution Manager	on Control	
WPCP Water Pollution Program	on Control	

Definition of Terms

Active Construction Area: The area where the contractor intends to be actively involved in soil disturbing work during the ensuing 21 day period during the rainy season. This may include areas where soils have been disturbed as well as areas where soil disturbance has not yet occurred.

Best Management Practice (BMP): Any program, technology, process, siting criteria, operating method, measure, or device that controls, prevents, removes, or reduces pollution.

Construction Activity: Includes clearing, grading, or excavation and contractor activities that result in soil disturbance.

Construction Site: The area involved in a construction project as a whole.

Construction Site BMPs: Temporary control practices (BMPs) that are required only temporarily to address a short-term storm water contamination threat. For example, silt fences are located near the base of newly graded slopes that have a substantial area of exposed soil. Then, during rainfall, the silt fences filter and collect sediment from runoff flowing off the slope.

Contamination: An impairment of the quality of the waters of the state by waste to a degree that creates a hazard to the public health through poisoning or through the spread of disease including any equivalent effect resulting from the disposal of waste, whether or not waters of the state are affected.

Contractor: Party responsible for carrying out the contract per plans and specifications. The Standard Specifications and Special Provisions contain storm water protection requirements the contractor must address.

Discharge: Any release, spill, leak, pump, flow, escape, dumping, or disposal of any liquid, semisolid or solid substance.

Disturbed Areas: Areas that have been purposefully cleared, grubbed, excavated, or graded by the contractor; ground surface that has been disrupted by construction activities, including construction access/roads, producing significant areas of exposed soil and soil piles. Staging and storage sites are considered as part of the total disturbed land area, if they are located on erosible soil within state right-of-way.

Environmental Protection Agency (EPA): Agency that issued the regulations to control pollutants in storm water runoff discharges (The Clean Water Act and NPDES permit requirements).

Erosion: The wearing away of land surface primarily by wind or water. Erosion occurs naturally as a result of weather or runoff but can be intensified by clearing, grading, or excavation of the land surface.

Exempt Construction Activities: Activities exempt from the General Permit, including routine maintenance to maintain original line and grade, hydraulic capacity, or original purpose of the

facility; and emergency construction activities required to protect public health and safety. Local permits may not exempt these activities.

Existing vegetation: Any vegetated area that has not already been cleared and grubbed.

Fair Weather Prediction: When there is no precipitation in the forecast between the current calendar day and the next working day. The National Weather Service NOAA Weather Radio forecast shall be used. The contractor may propose an alternative forecast for use if approved by the Engineer.

Feasible: Economically achievable or cost-effective measures which reflect a reasonable degree of pollutant reduction achievable through the application of available nonpoint pollution control practices, technologies, processes, site criteria, operating methods, or other alternatives.

General Permit: The General Permit for Storm Water Discharges Associated with Construction Activity (NPDES Permit CAS000002) issued by the State Water Resources Control Board.

Good Housekeeping: A common practice related to the storage, use, or cleanup of materials, performed in a manner that minimizes the discharge of pollutants.

Local permit: An NPDES storm water permit issued to a District by the RWQCB having jurisdiction over the job site. Requirements of the local permit are generally similar to, but supersede the requirements of the General Permit. The District Storm Water Coordinator should be consulted to identify and to incorporate variances between the local permit and General Permit.

National Pollutant Discharge Elimination System (NPDES) Permit: A permit issued pursuant to the Clean Water Act that requires the discharge of pollutants to Waters of the United States from storm water be controlled.

Non-active Construction Area: Any area not considered to be an active construction area. Active construction areas become nonactive construction areas whenever construction activities are expected to be discontinued for a period of 21 or more days.

Non-Storm Water Discharge: Any discharge to a storm drain system or receiving water that is not composed entirely of storm water.

Permit: The Caltrans Statewide NPDES Permit (see Statewide Permit), General Construction Permit, or local permit, whichever is applicable to the construction project.

Pollution: The man-made or man-induced alteration of the chemical, physical, biological, and radiological integrity of water. An alteration of the quality of the water of the state by waste to a degree which unreasonably affects either the waters for beneficial uses or facilities that serve these beneficial uses.

Rainy Season: The dates of the rainy season shall be as specified: use dates in the local permit if a local permit is applicable to the project site and rainy season dates are specified therein; or, if the local permit does not specify rainy season dates and/or in areas of the state not subject to a local

permit, the rainy season dates shall be determined using Figure 2-1 of the *Caltrans Storm Water Quality Handbooks – Construction Site Best Management Practices Manual.*

Receiving Waters: All surface water bodies within the permit area.

Regional Water Quality Control Board (RWQCB): California agencies that implement and enforce Clean Water Act Section 402(p) NPDES permit requirements, and are issuers and administrators of these permits as delegated by EPA. There are nine regional boards working with the State Water Resources Control Board.

Resident Engineer (RE): The Caltrans representative charged with administration of construction contracts. The RE decides questions regarding acceptability of material furnished and work performed. The RE has "contractual authority" to direct the contractor and impose sanctions if the contractor fails to take prompt and appropriate action to correct deficiencies. The following contractual sanctions can be imposed by the RE: (a) withholding payments (or portions of payments), (b) suspending work, (c) bringing in a separate contractor to complete work items (the contractor is billed for such costs), (d) assessing liquidated damages including passing along fines for permit violations, (e) initiating cancellation of the construction contract.

Sediment: Organic or inorganic material that is carried by or suspended in water and that settles out to form deposits in the storm drain system or receiving waters.

Statewide Permit: The National Pollutant Discharge Elimination System (NPDES) Permit, Statewide Storm Water Permit and Waster Discharge Requirements (WRDs) for the State of California Department of Transportation (Caltrans). Order No. 99-06-DWQ, NPDES No. CAS000003.

State Water Resources Control Board (SWRCB): California agency that implements and enforces Clean Water Act Section 402(p) NPDES permit requirements, is issuer and administrator of these permits as delegated by EPA. Works with the nine Regional Water Quality Control Boards.

Storm Drain System: Streets, gutters, inlets, conduits, natural or artificial drains, channels and watercourses, or other facilities that are owned, operated, maintained and used for the purpose of collecting, storing, transporting, or disposing of storm water.

Storm Water: Rainfall runoff, snow melt runoff, and surface runoff and drainage. It excludes infiltration and runoff from agricultural land.

Storm Water Pollution Prevention Plan (SWPPP): A plan required by the Permit that includes site map(s), an identification of construction/contractor activities that could cause pollutants in the storm water, and a description of measures or practices to control these pollutants. It must be prepared and approved before construction begins. A SWPPP prepared in accordance with the Special Provisions and the Handbooks will satisfy Standard Specifications Section 7-1.01G - Water Pollution, requirement for preparation of a program to control water pollution.

Water Pollution Control Program (WPCP): A program that must be prepared and implemented by the construction contractor under Standard Specifications Section 7-1.01G - Water Pollution.